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|------------|------------|------------|------------|------------|------------|--------|
| TTGAGAAATT | GGTCGATCAC | GAAAACATTT | CAGATATTGC | AAAATCTAAA | GTTGAAAATA | 606360 |
| TGGGAATTAT | TTTTATTGAT | GAGATCGATA | AAATAGCTGC | TAAGAATAGG | AGTGGCAATG | 606420 |
| ATGTGTCCAG | AGAAGGTGTT | CAAAGAGATA | TTTTGCCAAT | TATTGAAGGT | TCTAAAGTTA | 606480 |
| ATACAAAATA | TGGAATAGTT | GATACTTCTC | ATATTTTATT | TATTGCAGCA | GGAGCATTTA | 606540 |
| ATTTAGCTAA | ACCTTCTGAT | TTAATACCCG | AGCTTCAAGG | AAGATTTCCT | ATTAAGGTTG | 606600 |
| AACTTAAGAG | CTTAAGCATA | GACGATTTGA | AAAAAATTTT | AAAACAAACA | AAAAATTCTT | 606660 |
| TAATAAAACA | ATATGTTGCG | ATGTTTAAGG | TTTATGATTT | AGATTTAAAG | TTTAGTGAGG | 606720 |
| AAGCTATAGA | TAGAATTGCA | GAGCTTACTT | TTAATATGAA | TCTTGAGAGT | GAAAATCTTG | 606780 |
| GTGCCAGAAG | ACTTCACGGT | GTTATGGAAA | TAGTGCTTGC | AGATCTTTTT | TTTGAAGTGC | 606840 |
| CTGGCAGTAA | GTTGAAAAAA | TTTGAAATAA | ACTTGGAATA | TGTTAATAAA | AAAATACAAA | 606900 |
| TTAACGAACA | AAAAGATTTG | AATTATTATA | TAATTTAGTT | AAAAGCAATT | TTAAATGAGG | 606960 |
| GAGGTTTCAA | TTTGAATGAT | TTTGAAAGAT | CTGTAGATTT | TTCAATAGG  | TATTTAGATG | 607020 |
| TTTTGAGTTT | AAGACAAAGC | GTTATTTCTG | ACAATATAGC | AAATATAGAT | ACTCCAAATT | 607080 |
| TTAAAAGAAG | CAAATTTTCT | TTTGAATCAG | AGCTTGAAAA | GGCTTTTTTA | AATGAAGATA | 607140 |
| AAAATGATTT | AACTTAATT  | AAATCTAGTG | ATAAGCACCT | GTCTGGGTTT | AAAAATCTAA | 607200 |
| AGTATTCAGA | TGTCAGCCT  | CACAGAGTTC | TTGACCATTT | TTCAACTATG | AATAATAATG | 607260 |
| GCAATAATGT | TGATATTGAT | TCTGAGGTTA | AGGCACTTGT | GCAAAACCAA | ATGATGTATC | 607320 |
| ATCTTATGAC | TAATGTTTCA | GCGCATTTAT | TTAAAAGTAT | AAATATTGTA | TTAAAATAAA | 607380 |
| TTAATATCTT | AAGGAATGTA | AAATGGGATT | GTTTTCAAGC | ATTAATGTAG | CTTCAACGGG | 607440 |
| ATTAACAGCA | CAAAGGTTAA | GGATTGATGT | TATTTCTAAT | AACATTGCAA | ATGTTTCTAC | 607500 |
| TTCTAGAACT | CCTGATGGTG | GACCTTATAG | AAGGCAAAGG | ATTATTTTGT | CACCAAGGGT | 607560 |
| TAATAATCCT | TATTGGAAAG | GGCCTTTTAT | TCCGGATTAT | CTTGATAATG | GCATTGGTCA | 607620 |
| AGGAGTTAGG | GTTGCTAGCA | TTGAAAAAGA | TAAATCTCCA | TTAAAGTTAA | AATATGATCC | 607680 |
| AGCTCACCCC | GATTCAATAA | GTTCTGGAGA | TAAAAAGGGT | TATGTAGAGC | TTCCCAATGT | 607740 |
| TAATTTAGTT | GAAGAAATGG | TAGATATGAT | TTCAGCTTCT | CGTGCTTATG | AGGCAAATTC | 607800 |
| TACTGTCATC | AATAGTAGTA | AGTCTATGTT | TAGAAGTGCG | TTAGCTATAC | TTCAAGGCTA | 607860 |
| AAGGAGAGAT | CATTGGTGAG | AACAGATGCT | TTTTTTACAG | AAAATAATAT | TAATTTGGTT | 607920 |
| AAAAAAAATC | CTTTGCATTT | TGATGTGAAT | CTTTTGTAGT | CTAAAAGTAA | TGCCAAAGAC | 607980 |
| AATGATATTA | AAACTTTTAA | GGATGTTTTA | ATAAATTCGA | TTACTGATGT | CAACAAAAGC | 608040 |

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| CATGATGTTG TAATAGCGAT GTCTAAGGCG AATATGAATT TAAGCATTTT AAAGGCTGTT  | 608160 |
| GTTGAGAGAG GTGTGAAGGC TTATCAAGAT ATAATCAATA TTCGTTAAGG AGCCATAAGA  | 608220 |
| TTTTGAGCAA ATTTTTTACT AATTTTTTTT TTTTCAGCAA AGGAATCTTC AAAAAAGCTA  | 608280 |
| GTACGGTTCA GAAAATAGCC TTAGGATTGA TTATTTTTTT TGTGATTCTT GCGCTTGTTT  | 608340 |
| TTTTAATAGG GTTTTCTACT AAAAGTCAA GCATTGCTCT TTTTGGGGTT GAAATTAAAG   | 608400 |
| ATCAATATCT CTTAGATAGG ATATCGCAA GACTTGATAG GGAAAATGTT AAGTATTTTT   | 608460 |
| TGAGTTCTGA TGGAAGAATT TATTTAGATG ATGAAAAGCT TGCAAAAAAA ATGAGAGCAA  | 608520 |
| TTCTTGTCAG AGAAGAGCTT GTGCCCCTT ATATGGATCC ATGGGCTTTG TTTGATATTG   | 608580 |
| ATAGGTGGAC TATTACTGAT TTTGAAAGAA GCATTAATCT TAGAAGATCT ATTACAAGAG  | 608640 |
| CGGTTGAACA GCATATTGTA GCTTTAGATG ATGTTGATGC TGTTAGTGTG AATCTTGTTA  | 608700 |
| TGCCCAGAGAA AGCTCTTTTT AAAGAGTCTC AAGAGCCTGT TAAGGCATCT GTTAGAATTA | 608760 |
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| GAACTATTTT AAATGATTTT TCTAATTTGG ATGGGATAGA TAGAATAGAC TTAGCAGAAA  | 608940 |
| AAGAGCGTAA GTTAAAGCTT AAGTATGAAG CTATGCTTAG GGGTGAAATC GATTCTGCAT  | 609000 |
| TAAGTAAGGT TTTGTCTGTT GATAGATTTA TGATAGCAAG AGTAAATGTA AAGCTTGATA  | 609060 |
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| CAAAAGCTTC TTATAACACT AGGAAAGTAA GCGATTCAAC TATTATATCT TCTCAGACTC  | 609180 |
| AAAAAAAGA ATATCAGGGT CAAGGATATA GTCCCTGGGG ACCTCCTGGG CAGGAAGGCA   | 609240 |
| ATACCCCTCC TGAATATCAG GATTTAAGTG ATATTACTGG TAAATATAAT GAGTCTCAAG  | 609300 |
| AGATCAAAAA TGTTGCTTTG AATGAAAAAA AATCTACAAG CGAAAAAGAG CCCGCTAGGA  | 609360 |
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| AAGAAATAAA AAATATTGAA GATGTTTTGC AAAGTTCTTT TGAATATAAG CCAGAAAGAG  | 609540 |
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| ATGAAAATTA TTTTGCAAGT GAAAGGTTTA AATATTTCTT ATTTATTGCA AGTATAGTAT  | 609660 |
| TTTCATTATT AATTTTAGTA TTTACGATAT TTTTGTCTAT TTCTAGAGAA CTTGAGAGAC  | 609720 |
| GAAGACGTCT TAGAGAAGAG GAATTAGCAA AGCAAGCACA CTTAAGGCGC CAACAAGCCT  | 609780 |
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| TTATAAGAAC ATGGCTTTTG AAAAACGCGT AAAAGGTAGT AATTGATATG GAAGAAAAAA  | 609960 |
| AAGAAAAGGA GATTCTGGAT GTTCTGCTT TAACAGGCAA GCAAAGGCC GCTATTTTGT    | 610020 |
| TGGTTTCAAT AGGTTCTGAA ATCTCTTCTA AAGTGTTTAA GTATCTTCT CAAGAAGAGA   | 610080 |
| TAGAGTCTTT GACATTTGAG ATAGCAAAGC TTGAGACAAT TACTTCTGAG CTTAAAGATA  | 610140 |
| ATGTTCTTTT AGAGTTTAAA GAATTAATGA TGGCTCAAGA ATTTATTCAA AAGGGTGGAA  | 610200 |
| TTGATTATGC AAGAGAGCTT CTTGAAAAAT CTCTTGGGAC TCAAAAAGCA GTTGATATTA  | 610260 |
| TTAATAATTT GGGTCTGCT TTACAGTCTA GACCCTTTGA ATTTGTAAGA AGAGCAGATC   | 610320 |
| CTGCGAATAT TTTAACTTT ATTACAGCAAG AACATCCCCA AACAATTGCT TTAATCTTT   | 610380 |
| CATATCTTGA TCCTCAAAAG GCTTCTTTTA TTCTCTCTAG TTTGCCACACA GAAGTACAAA | 610440 |
| CCAATGTTGC AAGAAGAATT GCGTTAATGG ATAGAACTTC TCCTGAGGTT GTAAGAGAGG  | 610500 |
| TTGAGAGGGT TCTTGAGAAA AAAGTAGCTT CTCTTCTTC AGAAGATTAT ACATCAGCAG   | 610560 |
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| TTGTGTTTGA GGATATAGTT TTACTTGATG ACAGATCTAT ACAAAGGGTT TTAAGAGAAA  | 610740 |
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| TTTTCAAAAA CATGTCAAAA AGAGCGGCTT CAATGCTTAA GGAAGACATG GAATTTTTGG  | 610860 |
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| TTTAAGAGAT GAAAAATTAC AACTTGAGGA AGAGCTTGCT AAAAGGCAAG AACTTGCCAA  | 611220 |
| AGAGGAAGTT CAAATTGAAT CTAAGCGGCT TATTGAAGAA GCTAAGGCAA AGGCTAATGA  | 611280 |
| AGTATTAGAA GCAGCCAAAC AAGAAGCAGA TCTTTTACAA AAAGAAGCTA TTTATAAGAA  | 611340 |
| AGAACTTATT GAGACTGAAT CTAATGCCGA GATTGAAAGA TTAGCAAGAG AGTATGAAGA  | 611400 |
| AAAATTAAAA ACAGATCTTG AGATAGCAAT AGCTAAAGGT AGGGAAGAGG GATATAGCAA  | 611460 |
| AGGTTATGAA AGTGGTTTTG AAGATTTTGA CAAAGTTATG AGAAAATTAC ATGTTATAAT  | 611520 |
| AGCATCTCTG ATTGCTGAAA GGAAAGGTAT TCTTGAATCT TCGAGTGGCC AGATAGTGAG  | 611580 |

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| TGTTTTGGAA AATGTTAATG AGGTTTTGAA AAGGGTAAAA GATAAAACAC AGATTACCAT | 611700 |
| TCGTGTAAAT CTTGATGATT TAGATATTGT TAGACATAAA AAGAGTGATT TTATTTCTAG | 611760 |
| ATTTGATATT ATAGAAAATT TAGAGATCAT AGAAGATCCC AACATAGGCA AAGGCGGTTG | 611820 |
| TATAATTGAA ACTAATTTTG GAGAGATTGA TGCGCGCATT TCTTCTCAAC TTGATAAAAT | 611880 |
| AGAGGAAAAG TTTAAAAATT TTTCTTTATT AAGTTAAGTA TCTAAAGGAA TTTTAGTGAG | 611940 |
| CAATTTTTTT GAAAATTATT TAAGACAAGT AGATGATATT GAAACTGTTT CTTTTGTTGG | 612000 |
| CAGGGTGCAA AAAATAAAAG GTCTTTTAGT TGAGAGTTTA GGGCCTCAGT GCGCTATTGG | 612060 |
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| TAATGGTCCT TATGTTAGCC TTATGGCCTA TGAAGGATTT AGCGGGATTG AAGTTGGAAA | 612180 |
| TAAAGTTTAT TCTTTAAACA AAGGGCTAGA AATAAATCTT AGTGATGAGC TTTTGGGAAG | 612240 |
| AGTTATTGAT TCTCTTGGCA GACCTATTGA TAATAAAGGG TCATTTTTGA ACAATAGTTA | 612300 |
| TAAAGAGTTA ATTTTTGAAA AAATTAATCC AATTAATAGA AGTATTTTTG AAGATCAAAT | 612360 |
| ATTAACGGGA GTTAAAGTTC TTGATGGGTT TTTGCCAGTT GCAAAAGGAC AAAGAGTTGG | 612420 |
| TATTTTTTCT GGTCTGGTG TTGGTAAATC TACTTTGCTT GGCATGATTG CAAAAAATTC  | 612480 |
| AAATGCAGAT GTAAATGTTA TTGCTTTTAT TGGGGAAAGG GGTCGAGAGC TTAATGAGTT | 612540 |
| TATTGAACAT GAGCTTGGTG AAGAGCGTTT AAAAAAAGT GTTTTAGTTG TTTCAACTTC  | 612600 |
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| CTTTAGGGAG CAAGGTAAAG ATGTGGCTTT GCTTTTTGAT TCTATTACTA GGTGTGCAAA | 612720 |
| TGCTAAAAGA GAGATGTCTC TTTCTTTAGG AGAGCCTCCG GTAGCTAAAG GTTATCCGCC | 612780 |
| TTCTGTTTTT GTTGAAATTC CAATTTTGCT TGAGAGATCG GGCTTTAATG GTAATGGGGG | 612840 |
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| CGATAATATT AAAGCTGTTT TGGATGGTCA TATTATTTTA GACAGAGATT TGTTTGACAG | 612960 |
| GGGAATATAT CCTTCAATAA ATGTTTTAAG TTCAACTTCA AGATCTATTC ATAGAATAAT | 613020 |
| GAGCCTAGAA AAACAAAAAT TAATAATGAA AGCTAGAAAT TTATTGTCTA TTTATAAAGA | 613080 |
| TTATGAAGAT CTTATTAGAA CAGGAATTTA TCTCAAAGGA TCCAATAAGG ATGTTGATTT | 613140 |
| TGCAATTTCT AAGTATCCTA AGATTATTAA TTTTATTTCT CAAGGAATAA ACGAAACATT | 613200 |
| TGATTTTGAA AATTTAGAAG ATGAAATAAA GGAAATATTA TCTTGAATGA TTTAACTTT  | 613260 |
| AGAAAACAAA AGCTTAATAG AATATTGACG ATTAGAACCT ACTTTCGAAA GCTAAGCGAG | 613320 |
| AGAGATTTAA TGAATATAAA TAAGAAAATT TCAAAAATAA ATCAGTTTTT AGATGGAATT | 613380 |



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| CCTAATATTT | TAAAAAACTT  | GAATGGTTTT | GATGATCTTT | ACATAAGAGG | TTATATAGAC | 613440 |
| TGTTTAAATT | ATAAAAAAAC  | CCAAAATTTT | AAAATTCCTG | AAGAGCTTAG | AAAGCATTAT | 613500 |
| AACAAATGTT | ATGATGTTTA  | TGTAGATAAA | TATAGGCAAG | AAAAAAAGAT | TAAGATATTA | 613560 |
| ATAAAAAATT | TAAATAATTC  | TATAATTAAA | AATAGAGAAA | AAAAGGAAAG | CTTGCTACTA | 613620 |
| GATGAGCATG | TAAATTATAA  | AGTTTGTCAA | AATCTAAGGA | ATGAAAGTGA | ATAATTTTTT | 613680 |
| ATCGTTCCTT | TTTAGGGCAT  | TTTTTTTGTT | ATTTTAAATT | GTTATTTTAT | TTTTCTTTGT | 613740 |
| ATTATTCCTT | ATTGATTTTA  | TTGGAATGTA | TAATACTAAA | AGATATTTCC | CCGAATTTGT | 613800 |
| AAGAACCAAG | TTGTTAGGAG  | AAACTTCTCT | GGTCTTTGAT | CATAATTCTA | ATATAATTCT | 613860 |
| TGATGAAGCT | AGACTTGTGA  | AGGAAAGAGA | AGCTATTGAT | ATTAAGAATC | AGCAGATTGA | 613920 |
| AAAGCTTAAA | GAAGATCTAA  | AGTTAAAAGA | AGACAGTTTA | AATAAGCTTG | AATTTGAGCT | 613980 |
| TAAGCAAAAG | CAGAAAGATT  | TAGATTTAAA | ACAAAAATA  | ATAGATGACA | TTATAAATAA | 614040 |
| ATATAATGAT | GAGGAAGCAA  | ATATTTTGCA | AACAGCTGTA | TATTTAATGA | ATATGCCACC | 614100 |
| AGAAGATGCT | GTTAAGCGGC  | TTGAAGATTT | AAATCCCGAG | CTTGCAATAT | CTTATATGCG | 614160 |
| GAAAATTGAA | GAGCTTTCCA  | AAAAAGAAGG | TCGTTTATCA | ATTGTTCTTT | ATTGGTTATC | 614220 |
| TCTTATGGAT | TCTAAAAAAG  | CTGCTATATT | GATTAGAAAA | ATGTCTGTTA | GTTCAATTGA | 614280 |
| GTAGTGTGTA | TATGAGTAAT  | TTATTAAATT | TAAGTAAAGC | TTATGGAAAT | AAATTAAATC | 614340 |
| TCTTGAATAC | AATTAAGGGG  | TTAAATTTAA | ATGTTTCTAA | AATGGAATCT | AAAGGAAATG | 614400 |
| CGAGCTCTTT | TTTAAATGTT  | ATGTCTTCTG | AATCTAAAAA | ATTAGCTAAA | GCAAAATTTA | 614460 |
| TGATATTTGA | TTTTTTAAAT  | TTTTTTAAAG | ACAATGGACT | TATTGCTAAA | AATTTAAAAA | 614520 |
| AATCACCTTT | AAATAAATCC  | TTTTTTTTTA | AAAACTTGA  | AAATGAAGAT | TTTGTTCCTG | 614580 |
| ATTTGAAATC | CTTGATTGCT  | AGAATGAATG | TATTTTLAGA | TTTTGAAGGT | TTAAATAGCA | 614640 |
| TTAAAGAAGA | TTTATCATCC  | AATTTTGATT | TTCTAGGTAA | AGAAAAATTT | TTTGAAAAAA | 614700 |
| TCGAAAAACT | TTGTTTGGCT  | TTTAATGATT | TAAGTTCCTT | TTTGGGTTTT | GATTTTTTAA | 614760 |
| CTGCTTTGAT | TGATGATTAT  | TATAATCAGA | TAAGCTTGAA | TGATAAAAAG | GAAGAAAAGA | 614820 |
| ATGTTATTAA | CATTGATGTA  | AAAAACTTTA | AAAAGAATAA | TAGTGATCAT | AATGATTTTG | 614880 |
| TTTTTTTCAA | GTTTAGCTTA  | AATGCAATTG | ATGGTCAAAA | TTTTGTTGAT | AGGTATAAAG | 614940 |
| TTAAAGAAAT | ATCAAACGAT  | TCTTTAAAAG | GCTTTGTTGA | AGAATTTGCT | AATTATAATA | 615000 |
| TAAAAAGCTC | TAAAGATGTT  | GGAGGCTTTG | ATTTTGTGAG | CAGTTTAAAG | CCGGAGTGGA | 615060 |
| ATCTTAAGAT | TAATAAGAAAT | ATTGTGGATA | AAGCTAAAGT | TGTGTTAAAA | TCGAATAATA | 615120 |

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| CAGGAGAGAT | TAAGTTGGTT  | TTAAAGCCCC | AAGAGCTTGG  | TAGTATACGA | ATTAATTTAA  | 615180 |
| ACCTTGATTC | AAATAATAAT  | TTATTGGGAA | AGATCGTAGT  | GGATAATCAA | AATGTTAAAA  | 615240 |
| TGCTTTTTGA | CCAAAATATG  | CATTCATTAA | ATAAAAATGCT | TGGTGAGAGT | GGTTTTAATG  | 615300 |
| CCAGCTTAAA | TCTTTTTCTT  | GCAGGTGAGA | ATTTAAATTC  | TTTTACTGGA | AATTTTAAAG  | 615360 |
| ATGACTCTAA | GGACCAAAAT  | TTTCATTTTG | GTTATAATAA  | ATTTTTTAAA | ATTGAAGAAG  | 615420 |
| AAGTTGAATT | TTCTTACGAT  | GTAGATAAAA | ATGTTAATTT  | AATTGTTTAG | AGGGTAGAGC  | 615480 |
| TAAATGAATA | AAATAAACGG  | TGTTGAAAAT | GTTTTTAATT  | TAAATATTAG | CAATAAAGTT  | 615540 |
| AAAAAAAAAA | CAGATTTTAA  | TGTTGACAAT | ATATCTAATA  | AGGTTAATCT | TGGCAAGGAT  | 615600 |
| GATTTTTTAA | AGTTACTCAT  | TACTCAACTT | AGGTATCAAG  | ACCCTACAAA | TCCAATGAAG  | 615660 |
| GATAAAGAAT | TTATTGCGCA  | AATGGCGCAA | TTTTCGGCTC  | TTGAGCAAAT | GGCTAATATG  | 615720 |
| AGTAGATCGT | TTGAAAAACT  | TTCATCTTCT | TTAGAAATAA  | GAAAAGATTT | GGATTTATTA  | 615780 |
| GGTAAAGTAA | TTAAATTTCA  | GCATGGTGAT | GGGGAGATTG  | TTGAGGGTCG | CGTCACAAAC  | 615840 |
| ATTAAGACAG | GCGCAATACC  | TCAAGTTATG | GTTAATGGTA  | ATTATTATGT | ATATAAAAAAT | 615900 |
| ATATTATCGG | TAGGTTTGGA  | GGAATAATTA | TATGATGAGG  | TCTTTATATT | CTGGTGTTTC  | 615960 |
| TGGGCTTCAG | AATCATCAAA  | CAAGAATGGA | TGTTGTTGGT  | AACAATATCG | CCAATGTAAA  | 616020 |
| TACAATTGGC | TTTAAAAAGG  | GAAGAGTAAA | TTTTCAAGAT  | ATGATATCGC | AATCTATTTT  | 616080 |
| TGGAGCTTCT | CGCCCTACTG  | ATGCTCGTGG | TGGGACTAAT  | CCCAAGCAAG | TTGGATTAGG  | 616140 |
| CATGAATGTT | GCCTCAATTG  | ACACTATTCA | CACTCAAGGA  | GCTTTTCAAA | GCACTCAAAA  | 616200 |
| AGCATCTGAT | CTTGAGGTTA  | GTGGCAACGG | ATTTTTTATT  | TTAAAAGAAG | GTAAAAATTT  | 616260 |
| GTTTTATACA | AGAGCCGGTG  | CTTTTGACGT | GGACTCTGAT  | CGACATCTTG | TAAATCCTGC  | 616320 |
| AAATGGAATG | CGAATTC AAG | GTTGGATGGC | AAGAGATTTA  | GAAGGTGAAA | AGGTTATAAA  | 616380 |
| TACAGCTTCT | GATATTGAGG  | ATCTGATTAT | TCCGATTGGA  | GATAAAGAGG | GAGCAAAGTC  | 616440 |
| TACGAAAAAT | GTTACTTTTG  | CTTGTAATCT | TGATAAGAGA  | TTGCCCTTAA | TTCAAGAAGG  | 616500 |
| TGCGAATCCT | GCAGATATTG  | CACGCGGAAC | TTGGGTGTGC  | AATAAATCAT | TGTATGACAG  | 616560 |
| TTTTTGAAAT | GTTAGTGTTT  | TTGAGCTTAG | AGTTGTAAAA  | GATTTAAATA | CGCCTAATTT  | 616620 |
| ATGGAATGCA | ACAGTATTAA  | TAAATGGTGA | GCAAAATTCA  | AATTTTACAC | TTGGGTTTGA  | 616680 |
| CAATGAAGGA | GCATTGGCGT  | CTTTAAATGG | TCAACCAGGG  | CAAAAAGGAG | ATATTCTTCA  | 616740 |
| AATTCCTATA | ACATTTAATG  | TTTTGGGTGC | AAATGTAGGT  | GAAGTTGGTG | AGCAGCAAAC  | 616800 |
| TGTAAATTTG | AAATTGGGAA  | CAGTTGGAAG | TTACACTGAT  | TCAATTACTC | AGTTTGCTGA  | 616860 |
| TTCTAGTAGC | ACAAAGGCTA  | TTATTCAAGA | TGGATATGGC  | ATGGGATATA | TGGAAAATTA  | 616920 |

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| TGAAATTGAT | CAAAATGGTG  | TTATAGTTGG  | CATTTATTCA  | AATGGCATAA | GACGAGATCT | 616980 |
| TGGCAAGATT | GCTCTTGCTT  | CTTTTATGAA  | TCCCGGAGGA  | CTTGCAAAAT | CAGGCGATAC | 617040 |
| TAATTTTGTA | GAAACAAGCA  | ATTCAGGTCA  | AGTTAGAATA  | GGCGAAACTG | GACTTGCTGG | 617100 |
| ACTTGGTGAT | ATTAGATCTG  | GTGTTTTAGA  | AATGGCCAAT  | GTTGATCTTG | CAGAGCAATT | 617160 |
| TACAGATATG | ATAGTGACCC  | AAAGAGGATT  | TCAGGCAAAT  | GCCAAAACCA | TTACCACTTC | 617220 |
| TGATCAATTA | TTACAAGAAC  | TTGTAAGATT  | GAAAAATTAA  | TCTAAGATTG | TTTTTTTAGT | 617280 |
| ATATGATTTT | TGTAACATAAG | CTTAATGGTG  | ATGGATATTA  | TTTAAATCCT | TATCATATTG | 617340 |
| AAAGTATTGA | GGCTAATCCT  | GATACTACAA  | TTCTTCTTAT  | GAATGGTAAG | AAGTTAATTG | 617400 |
| TTAAAGAAAA | AGTTGAAGAG  | GTGGTCAATA  | GGATTAAGTT  | GTATAGGAAA | GAAGTTGCTT | 617460 |
| CTTTAGAAAA | AATTTTAGGA  | GAAGGAAATG  | GGGGCGTTGA  | ATTATGAATT | TAGCTAGTAT | 617520 |
| AATTGGGTGG | GGAGTTGGAT  | TTGGAGCTAT  | TTTAATTTCT  | ATGGCATTTA | CTCCTACAGG | 617580 |
| ACTTGGTGTT | TTTTGGGATT  | TAAGCTCTGT  | TTTTATTACT  | GTTGTTGGAT | CTTTTTCTGC | 617640 |
| TCTTATGGCT | TCTTCAGAAG  | TTGTTGCTGT  | AAAAAAAATT  | CCAACGTATT | TGGGATTTTT | 617700 |
| CTTTAGAAGA | AATTCATATG  | CTAAGGTTTC  | TATTATAAAA  | ATATTAGTAG | AGCTTTCTGA | 617760 |
| AAAGGCTAGA | AAAGAAGGTC  | TTTTATCTCT  | TGATGATGAG  | CTTGAACAAA | TTAATGATCC | 617820 |
| ATTTTTTAAG | TCAGGAATGA  | GGCTTGTTGT  | TGATGGTGCA  | GATCCTGAGG | TAATTAGAAC | 617880 |
| TATGCTTTAT | TTAGAGCTTG  | ATCAAATGCA  | AGAAAGGCAT  | AAGGTTGGTT | CAGATCTTTT | 617940 |
| TAAAACCTGG | GCAAAGCTTG  | CTCCAGCTTT  | TGGTATGACG  | GGTACTCTTA | TTGGACTTGT | 618000 |
| AGCTCTTCTT | GGTAATCTAG  | AGGATAAAATC | TGCGCTTGGT  | TCTTCTATGG | CTGTTGCTCT | 618060 |
| TATTACAAC  | CTTTATGGAA  | CTATAATGGC  | AAATTTAATG  | TTTACTCCTG | TTCAACTTAA | 618120 |
| GTTGGAAAAA | ATTGATACTG  | AAGAGGCTGC  | AGTAAAGACA  | ATGATAATTG | AGGGTGTTTT | 618180 |
| ATCAATTCAG | TCTGGAGATA  | ATCCTAGAAT  | TTTAGAGCAA  | AAATTAATGA | CGTTTTTAAC | 618240 |
| CCCCAAAGAT | CGAAGTCAGC  | TTAATAGTAG  | CATTGGTGGT  | GAATAATGGC | TTTGCGAATT | 618300 |
| AAGAAACCTT | CAAAATGTGA  | TGAAGGATCT  | CCAGATTATA  | TGTTGACTTA | TGGAGACATG | 618360 |
| GTTACTTTGC | TGCTTGTTGTT | TTTTGTTACA  | ATGTTTTTCAT | TAAATGATAT | TATTTTTCAA | 618420 |
| GAAAATGTGA | TAAGAATAAT  | GTCTGCTTCT  | TTACGGGTG   | CTGGATTTTT | CAAGGGCGGT | 618480 |
| AAAACCTTAG | ATTTTAGTAA  | ATTATCTTAT  | TTGAGTAATA  | GCTTTATGTC | TTTGCCTTCT | 618540 |
| ACTGTGCGCA | ATAACAAGC   | ATCTCAGACT  | GCTAAAAATA  | AATCCATGAT | TGAATTTATT | 618600 |
| GAGAAGATTC | AGTCTAAAAA  | TATTGTAGTT  | AGGCAAGAAG  | AAAGAGGTAT | TGTAATATCT | 618660 |

|             |            |            |             |             |            |        |
|-------------|------------|------------|-------------|-------------|------------|--------|
| CTTGCAGCAG  | ATGCATTTTT | TGATTCTGCT | AGTGCAGATG  | TTAAGCTTGA  | AGAGAATAGA | 618720 |
| GATTCTATTC  | AAAAAATAGC | ATCTTTTATT | GGCTTTTTTAA | GTCCTAGAGG  | CTATAATTTT | 618780 |
| AAAATAGAAG  | GGCATAACAG | TAATATTGAT | ACTGATGTAA  | ATGGACCTTG  | GAAAAGCAAT | 618840 |
| TGGGAACTTT  | CGGCTGCTAG | ATCTGTTAAT | ATGCTGGAAC  | ATATTTTGAA  | CTATTTAGAT | 618900 |
| CAATCTGATG  | TTAAAAGAAT | TGAAAATAAT | TTTGAAGTAT  | CTGGTTTTTG  | TGGAAGTAGG | 618960 |
| CCTATTGCAA  | CAGACGATAC | CCCTGAGGGT | AGGGCTTATA  | ATAGAAGAAT  | TGATATATTA | 619020 |
| ATTACTACAG  | ATGCATCTTT | AAGTTTCCCT | AAGGAAATTA  | AGCAGTAAGT  | AATTCTTTTT | 619080 |
| AACTTTAAAA  | AAGAAATTAA | TGGGAGGAAT | TTTATTATGC  | CTAATAAAGA  | CGATGACAAT | 619140 |
| TTAGATATGG  | GGGATTCCAA | TGTTAGTAGA | AAAGGCGGTT  | TATTGCCTGA  | TATTATAATA | 619200 |
| AAAATTTTAC  | AAATACTTGC | AATAGGAATA | TTTACTGTTG  | CAATAATGAT  | AATTGTTTCT | 619260 |
| TATTTTGTGT  | CTAAAATGGT | GGTAAGCCAA | AGTGGAGCTC  | CTAGTGATTT  | TCCAGTTTTT | 619320 |
| TCTAATGAAT  | ACTTAGGAAA | GCCACCTATG | CTTATATGGT  | ATGAAAGTAT  | AGATGAGATT | 619380 |
| AGAGGTAACA  | CCTTAGATGT | TCCTCCAAAA | ACTTTTGTTG  | TAAAGCTTGC  | TTTGGGGTAT | 619440 |
| GCAGAAAATA  | ATGTTAATAT | TCTCAATGAG | CTTGGAAGAC  | AGAAAGTGCG  | CTTAAAAGAC | 619500 |
| ATTATTAGAG  | AATATTTTAG | TCAAAGAACT | GGTCAAGAAA  | TAAAGAATGA  | AAGTCAAATA | 619560 |
| AAAGCAGAAA  | TTAAGGCAAG | AATTAATAGC | ATTCTTAGAA  | ATGGAGAAAT  | AAAAGAAATA | 619620 |
| GCATTAACCC  | AAATTGATAT | TTTTGATATG | TAATAAATTT  | AAAAGAATTT  | TAAATTTAAA | 619680 |
| GGAATTTTAA  | ATGGCAAACA | ATCCAGGAGC | TTTATCTCAA  | GATGATATAG  | ATAGTCTTTT | 619740 |
| AGAGTCTATC  | AACTCGTCTG | AAAGTTTATC | CTTAGACGAA  | TCCCTTTCTA  | ATGTTATATC | 619800 |
| TAGCCCTACA  | GGCAAAAAGC | AAAAAGTTAA | GGTTTATGAC  | TTTAAAAGGC  | CAGATAAATT | 619860 |
| TTCAAAAGAG  | CAGGTTAGAA | CAGTTTCAAG | TTTTCACGAG  | GCATTTGCCA  | GATATACTAC | 619920 |
| AACTTCACTT  | TCTGCTCTTT | TAAGAAAAAT | GGTTCATGTT  | CACGTAGCCT  | CAGTTGATCA | 619980 |
| ATTAACCTAT  | GAAGAGTTTA | TTAGGTCAAT | ACCCAACCCT  | ACAACTTTAG  | CAATAATAAA | 620040 |
| TATGGACCCCT | CTTAAAGGAT | CTGCTATTTT | TGAAGTTGAT  | CCAACAATAG  | CATTTGCTAT | 620100 |
| TGTAGATAGG  | CTTTTTGGGG | GTGATGGAGA | TACGATTAAA  | GATAAAAGTA  | GAGATTTAAC | 620160 |
| AGAAATTGAG  | CAGTCTGTTA | TGGAAAGTGT | TATTATTCGT  | ATACTTGCTA  | ATATGAGAGA | 620220 |
| GGCTTGGTCT  | CAAGTTGTTG | ATTTAAGGCC | AAGATTTGGT  | CATATTGAGG  | TCAATCCACA | 620280 |
| GTTTGCTCAA  | ATAGTTCCCC | CTACAGAAAT | GATTATTTTA  | GTAACCTTG   | AGGTTAAAAT | 620340 |
| AGGAAAAGTA  | GAAGGGCTTA | TGAATTTTTG | TTTGCCTTAT  | ATTACCATAG  | AGCCTATTGT | 620400 |
| TTCAAAATTA  | TCAACAAGAT | ATTGGCATTG | TTTGATTGGG  | GTTGGAAC TA | CTAGCGAGAA | 620460 |

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TCAAAAATAA ATTTTAATGA ATTTTATAAC AAAGGAATTG CTCCTCTTAG AATTTTTATG 622200

|            |             |            |            |            |             |        |
|------------|-------------|------------|------------|------------|-------------|--------|
| TATAAGCAGA | TGTCTGATGG  | GCGTCATGAA | GAGATTAGAT | TATTTATGAG | TATGAGTAAT  | 622260 |
| TATGATCGAC | CAAAAAATTT  | TAGCGAAGTG | CCAACGCATG | TTTTAATTGC | AGCCTTTATT  | 622320 |
| TTACATGAGC | TTAAAGTGGC  | TTTCAAGATG | GGAATTTTAA | TATTTTTGCC | TTTATAGTT   | 622380 |
| TTAGATATTA | TTGTTGCTTC  | TGTTTTAATG | GCTATGGGTA | TGATAATGTT | GCCCCCTGTG  | 622440 |
| ATGATATCTT | TGCCTTTTAA  | GCTTATTCTT | TTTGTAATGG | TAGATGGTTG | GACTTTAATT  | 622500 |
| ACTAGTGGTC | TTATTAAAAG  | TTTTATGTAA | GGTTATATAT | GACTGCAGGA | CACATTCTTT  | 622560 |
| ATTTAATTAG | AATTTCTATT  | GAAAACATTA | TTATTTTATC | AGCCCCAATG | TTGATTATAG  | 622620 |
| CTCTTATAGT | TGGTCTTTTG  | ATTTCAATTT | TTCAAGCCAT | TACTTCAATT | CAAGATCAAA  | 622680 |
| CTTTGAGTTT | TATTCCAAAG  | ATTATTGTTA | TACTTTTAGT | TATTGTGATT | TTTGGTCCTT  | 622740 |
| GGATTTTGAA | TAAGCTTATG  | CAGTTTACCT | ATATGATTTT | TAGTCAATTG | CAAAATGTTT  | 622800 |
| AATTTATGAC | TAATTGTACT  | ATTGGGATGA | AATTTTGAAT | TTAAATTTTT | TGGTTTTAAA  | 622860 |
| ATCTTTTACA | ATTTTACCTG  | TGTTGGTTAG | AATTTTATG  | TTTTTAAAAT | TTTCTCCATT  | 622920 |
| TTTTTCAACA | ATAAAAATG   | GATATTTTAA | TTTTTTCTTT | TCTTTGATTC | TCTCCGTAAT  | 622980 |
| TGTTGTTGAA | AAGATTAAAA  | TTATTTATCC | TTTAGACAAT | ATGCTTTCTT | TTGCGTTAAT  | 623040 |
| TTTATTAGGA | GAAGCTATTT  | TAGkTCTTAT | TCAGGCATTT | TTGTTAATA  | TAATTTTTTAA | 623100 |
| TGTTTTTCAT | TTGGTTGGAT  | TTTTCTTTTC | TAATCAAATT | GGGCTTGCTT | ATGCAAATAT  | 623160 |
| TTTTGATGTT | TTTTCAGAAG  | AAGATAGCAT | GATTATTTCA | CAAATTTTTG | CTTATTTGTT  | 623220 |
| TTTGCTTTTG | TTCTTATCAA  | GCGATTTTTT | ACTTCGTTTT | TTGTGATTG  | GCATACATGA  | 623280 |
| TTCTGTTTTG | AACATTAGGG  | TTGAACATTT | GGTCAATATG | AGAAATTCAG | GATTTGTCAA  | 623340 |
| GCTTTTGCTT | ATGTCCTTTG  | GATTTCTTTT | TGAAAAAGCT | TTATTAATTT | CGTTTCCAAT  | 623400 |
| ATTGTCTTTG | CTTTTACTTT  | TTTATCTAGT | ATTGGGAATA | CTTTCAAAGT | CATCGCCTCA  | 623460 |
| AATTAATTTA | TTAATAATTA  | GCTTTTCAAC | CTCGCTATTT | TTAGGGTTGT | TAATTTTATA  | 623520 |
| TATTGGATTT | CCAAGCTTAG  | CAATATCTTC | AAAAAGAGTG | ATTGAACTTT | CACTAGATTC  | 623580 |
| TCTTGCTAGT | TTTTTAAAAAT | TGTTTTCTAG | AGTTTTAAAA | TAATGATAAA | AGATGAATTT  | 623640 |
| TTGATTAAAA | GTTGGTATAT  | TCCCCTTGAT | TTTTTTTCCG | CAGATGATGA | GGGAAGAACC  | 623700 |
| GAATTACCTA | CTGACCAGAA  | AAAGCAAAAA | GCAAGAGAAG | AAGGCCGGGT | ATTAAAGTCT  | 623760 |
| ACTGAAATTA | ATACTGCCGT  | TAGTCTTTTG | TTGTTATTTG | CATTGTTTTT | TTTCATGCTT  | 623820 |
| TCTTATTTTG | CTTTAGATTT  | AATAGCTGTT | TTTAAAGAGC | AGGCCATCAA | GCTTCCTGAA  | 623880 |
| GTTATGCGTA | TGAGTGTTTA  | TACTATGGGT | TTTGCATATA | TTAGATCTAT | CATGGGGTAT  | 623940 |
| GTCGTTTTGT | TTTTTTTCGC  | ATCTTTAGCT | GTTAATTTTT | TTGTTAATAT | TATTCAGTA   | 624000 |

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|-------------|------------|------------|------------|------------|------------|--------|
| GGCTTTTTTA  | TTACTTTTAA | ATCTTTGGAG | CCAAGGTGGG | ATAAAATTAG | TTTTAATTTT | 624060 |
| TCCAGATGGG  | CAAAAAATTC | TTTTTTTTCA | GCAGGGGCTT | TTTCAATTT  | GTTTAAAAGT | 624120 |
| TTGTTAAAAG  | TTGTTATAAT | ATGCTTGATA | TATTATTTTA | TTATAGAAAA | CAATATAGGC | 624180 |
| AAAATTTCTA  | AGCTTTCGGA | GTATACACTT | CAATCTGGAA | TTTCTATTGT | GTTAGTGATT | 624240 |
| GCCTATAAGA  | TATGTTTTTT | TTCAGTAATG | TTTTTGCCAA | TTGTAGGGGT | GTTTGATTAT | 624300 |
| TTGTTTCAAA  | GATCTCAGTA | CATTGAGAGT | TTGAAAATGA | CAAAAGAAGA | GGTAAAGCAG | 624360 |
| GAAAGAAAGG  | AAATGGAAGG | TGATCCTTTA | CTTCGATCTA | GAATAAAAGA | GAGAATGAGG | 624420 |
| GTTATTTTAA  | GTACCAATTT | AAGAGTAGCT | ATTCCTCAAG | CAGATGTAGT | AATTACAAAT | 624480 |
| CCAGAACATT  | TTGCAGTTGC | TATTAAATGG | GATAGCGAAA | CAATGTTAGC | TCCAAAGGTG | 624540 |
| CTTGCAAAAG  | GTCAAGATGA | AATAGCTCTC | ACAATTAAAA | AAATTGCAAG | AGAAAATAAT | 624600 |
| GTTCTTTTAA  | TGGAAAATAA | GCTCCTTGCA | AGAGCTCTTT | ATGCTAATGT | TAAGGTTAAT | 624660 |
| GAAGAGATTC  | CAAGAGAATA | TTGGGAGATT | GTTTCAAAAA | TTCTTGTGAG | AGTATATTCT | 624720 |
| ATTACTAAAA  | AGTTTAATTA | GAGGTTCTAT | TGTTGGATGC | TAGAAAAAAT | TCTATATTAG | 624780 |
| GGTATTTGGG  | GCTTAATAAT | AAGTCTGATT | TAATAATTTT | GGTCGGTTTG | ATATTTGTTG | 624840 |
| TTGCCGGTTT  | TATTTTGCCT | CTTCCTGCAG | TTATTTTGGA | TGTTTTGATT | ACGGTTAATT | 624900 |
| TAGTAATAAG  | TCTTTTAATT | ATTTTAATTG | TTCTTTATTC | TAAGAGATCT | CTAGATTTCT | 624960 |
| CTGTTTTTCC  | CACATTACTG | CTTGTGATGA | CTATTTTGGG | ACTCGTTCTT | AATATTTCTT | 625020 |
| CTACTAGGTT  | AATTTTAACC | AAAGGTATAA | ATTTTGATGG | GCAAATGATA | AGAACATTTG | 625080 |
| GGACATTTGT  | TGTGGGTAGT | TCTGGAATTC | AAGGACTTGT | TATTGGATTT | ATAATATTTA | 625140 |
| TAATAATCAT  | TGCTGTTCAA | TTTATTGTAA | TTACCAAGGG | AGCAACAAGG | GTAGCTGAAG | 625200 |
| TTGCAGCTCG  | GTTTGCTCTT | GATGCACTTC | CTGGCAAGCA | AATGGCGATT | GATTCTGCCT | 625260 |
| ACAGTTCTGG  | AAATTTGACA | GAAGAAGAGG | CTACAAGGCA | AAAAAACGAT | TTACAATCAG | 625320 |
| AAGTCAATTT  | TTATGGTGCA | ATGGACGGAG | CTTCTAAATT | TGTATCAGGA | AACGTTAAGG | 625380 |
| TTGGATTTTT  | AATAACTCTT | ATAAAATATC | TTGGTGGTTT | GTTAGTGGGA | ATAACTTTGC | 625440 |
| AAGGTC'TTAA | CTTTAACGAA | GCTCTTAACA | ATTATGTTTC | ATTGACAGTT | GGTGATGGGC | 625500 |
| TTGTGTCTCA  | ATTGCCATCT | CTTTTAATTT | CAACGTCTAC | AGGCTTGATT | GTTACTAGGT | 625560 |
| CGATTTCAAA  | AAATAGTTTT | GGCGGCGAGA | TTTTTGATCA | ATTCACAAAT | CATTTAGGCA | 625620 |
| TTTATTGGAT  | TGTTTCCGGG | TTTTTGCTTT | TTTLAGCTTT | TCTTCCGGGA | TTTCCAACCC | 625680 |
| TAATTCTTAT  | GTTTTTAAGT | TTGTCAATTG | CATTTTGGC  | TTATTCTCTT | TCAGGAATAA | 625740 |

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| GACAAAAAGA | AGAAATAGAT | AAAAAATGA   | AACTTGAAGA | AGAGCAGGCG | TCAATTTATT  | 625800 |
| CAGACAAAGA | TGTTTCTCCT | GTTGTTCCGC  | TTGATCCATT | AGCTCTTGAG | ATTGGATATA  | 625860 |
| ATCTTGTTCC | AATAGTTGAT | GATACAAAAA  | CTTCTGAGCT | GCTTGATCGT | ATTGTTAAGA  | 625920 |
| TAAGGCGTGA | GATTGCATTT | GAATTTGGAA  | TAGTTGTGCC | CAAGATTAGA | ATAGTTGATA  | 625980 |
| ATATGCGACT | TGAGCCCAAT | GCTTATTCTT  | TTAAACTAAG | AGGAGTTGAA | GTTGGGCGAG  | 626040 |
| GCGAGATTAA | GCTTGGCAAA | TTTTTAGTGA  | TAAATGTTGG | AATTGATTCT | GGAATAGATG  | 626100 |
| GAGATCTTGT | TAAAGATCCT | TCATTTGGAC  | TTCTTCTCT  | TTGGGTAAAT | GATGATGGGC  | 626160 |
| GAGAACTGC  | TGAAAAATTA | GGATATACTG  | TTGTAGATCC | TCCTTCAATT | ATTGCTACTC  | 626220 |
| ATATGACAGA | ACTTATTAAA | AGACATTCTT  | ATGAAATTTT | GAATCGTCAA | GATGTTCAAA  | 626280 |
| ATACTCTTGA | TGTTTTTAAA | AAAGATTACG  | GAGCTATTGT | TGAAGAGGTT | CTTAAGAATT  | 626340 |
| TTTCGGTTGG | CGAGATTCAA | AGGGTTTTAC  | AAGGTCTTTT | AAAAGAGCAG | GTTTCAATTC  | 626400 |
| GCAATTTAGT | TACAATTTTT | GAAACAATTG  | CAGATTTTAC | AAGTATTACT | AAGGATATAT  | 626460 |
| TTTTCTTGAT | TGAGAAATGT | AGGCAATCGG  | TTGGAAGGCA | AATAACTAGT | GGATATTTAG  | 626520 |
| ATTTAAATTC | TGAGCTTAAT | GTAATAACTT  | TAAACCCAG  | TTTTGAGCAA | ATGATAATTG  | 626580 |
| ATTCTCGTGT | AGAATCCAAT | CATGATCTTA  | TAAGTTCAAT | TGATCCTAAT | TTAAAACTA   | 626640 |
| AATTTATTTA | TGAACTTTTC | AAAATTGTAA  | ACGAAGTTCA | AGCAGAAGGT | TTTTATCCAG  | 626700 |
| TTGTTCTCTC | AAGCGAATCG | TCAAGACCTA  | TAATAAAAGT | GATAACAAGT | AGAGAGATTC  | 626760 |
| CAGATCTTGT | TGTTATGTCT | GTTTTAGAGG  | TTCCCCAAAA | TATTAAAGTT | AATGTTCTTA  | 626820 |
| AAACAGTAGA | GGTTGAAGAA | TAATATATGG  | TTCAATATTT | TACAGAAAAA | GGTCCAACCT  | 626880 |
| ATAATGAAGT | CATAGAAATA | ATTAAGAAAA  | AATATGGTAA | GAATGCTAGG | GTTATGACTT  | 626940 |
| ATAAAACCGT | TCCCCATGGG | GGGATTTTAG  | GTTTATTTAG | CAAAGATTGG | GTTGAAGTTT  | 627000 |
| CAGGTTATGT | TAGATATGAC | ATTGGTAATC  | AACAAATTAA | TGTTGAAGAT | GAAAAGCGAA  | 627060 |
| AGATTCTTCA | AAGTATTAAA | AGAGAAGAAA  | ATTCTTCAAT | TGAAGATGTG | CTTAAAGAAG  | 627120 |
| TTAAGTCTCT | TAAACAGAA  | CTTGCTCATA  | AAAAAGAAAA | TATTAATCAT | CCAACAATTA  | 627180 |
| CAAAAATTGA | AGACATTTTA | AGAGAAAAATG | ATTTTCTGA  | AAATTATATT | AAAGACATTA  | 627240 |
| ATGAGTTTAT | TAAGAGAGAA | TTAGTTTGT   | CAGATCTTGA | TGATTATGAA | AGGGTTAGAG  | 627300 |
| AGGATGTTGT | TTTATATATT | GCAAAGACAA  | TTAAATGTTT | AGGATCTATT | ATTGATAATC  | 627360 |
| TTAAGAAAAG | GGTTTTTATT | TTAGTTGGTC  | CAACAGGTGT | TGGAAAACT  | ACCACAATTG  | 627420 |
| CAAACTTGC  | AGCAATTTAT | GGTATTAATG  | GAGAATCTAA | GAGTTTAAAT | ATTAAAAATTA | 627480 |
| TTACTATTGA | TAATTATCGT | ATTGGAGCTA  | AAAAACAAAT | ACAACTTAT  | GGTGATATTA  | 627540 |



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|------------|------------|------------|-------------|------------|-------------|--------|
| TGGGTATTCC | GGTTAGAGCA | ATTGAGTCTT | TTAAAGATTT  | AAAAGATGAA | ATTACTGATT  | 627600 |
| CAAAGGATTT | CGATCTTATA | CTTGTTGATA | CAATTGGTAA  | AAGTCCCAA  | GATTTTCATGA | 627660 |
| AGCTTGCTGA | GATGAAGGAG | CTTCTTAATG | CTTGTGGAAG  | GGATGCTGAA | TTTCATTTGG  | 627720 |
| CTGTCAGCTC | TACCACAAAA | ACATCAGATG | TCAAAGAAAT  | ATTTACACAA | TTTTCTCCTT  | 627780 |
| TTAATTATAA | AACTGTGATT | TTTACCAAAG | TGGATGAAAC  | CACTTGTGTT | GGAAATTTGA  | 627840 |
| TAAGTTTGAT | TTATGAAATG | AAGAAGGTAG | TTTCTTATGT  | TACGGATGGG | CAAATTGTTC  | 627900 |
| CTCATAATAT | CAGCGTTGCA | GAACCACTTA | CTTTTATTAG  | AAGAATAAAT | GGCTACAGAA  | 627960 |
| TAAGCGATGA | TGCAGAGTTT | ATTAAGAAGA | TAAAAAGTAA  | ATCTTATTAT | TAAGGAAAGT  | 628020 |
| TATAATGGAA | GATCAAGCTC | AAAGTTTAAG | AGATATGATG  | AGATTAAATG | GTAAATTTAA  | 628080 |
| TTTTTCAGTT | GATGAGAAAG | TTCAAAACAG | CAAAACAAGA  | TTTATTGCTG | TTAGTAGTGG  | 628140 |
| CAAAGGCGGT | GTTGGTAAAA | GTAATATTGC | AATTGGACTT  | GCTCTTAAAT | ATTCTGAGCT  | 628200 |
| TGGTAAAAAG | GTGTTAATAC | TTGATGCTGA | TATTGGAATG  | GCTAATGTTA | ATATTTTGCT  | 628260 |
| TGGAGTTATT | CCCAAGTATA | GTATATATCA | TATGATTGCT  | CAAAGTCGTG | ACATCAGAGA  | 628320 |
| AGTAATAACA | AAGACCGAGT | ACAATATTGA | TCTTTTGGCC  | GGTGCTTCTG | GTACAATGGA  | 628380 |
| GCTTTTAGAT | CTCTCTGATG | TTGATGTAA  | TAAATTTATA  | AAAGAATTAT | TAAAAATATA  | 628440 |
| TGAATATGAT | ATAGTTGTAA | TAGATACTAG | TGCCGGAATT  | TCAAGACAAG | TTATTTTCATT | 628500 |
| TTTGCTTTCT | AGTGACGATG | TTGTTATTGT | TACTACTCCA  | GAACCCACTT | CGATTACTGA  | 628560 |
| TGCTTATGGA | ATAATTAAGG | TTTTGTCTTA | TAAGATGGAG  | AATTTGAAAA | ATTTAAGGCT  | 628620 |
| TATTGTTAAT | AGAGTAGCTA | ATGTTAGCGA | GGCCAAGGGA  | GTTGCTAAAA | AGGTTATAGA  | 628680 |
| TATTTCAGGG | CAATTTTTAA | ATTTAAATAT | TGATTATTTG  | GGTCATATTT | ATGAGGATCA  | 628740 |
| AAATATTAGA | AGTTCTGTTT | TTAAGCAAAA | ACCTTTTGTT  | TTGGTAAATC | CAAATAGCAA  | 628800 |
| AGCTAGCTAT | TGTCTTGATT | CTATTGTTGC | CACCCCTGAG  | GAGGTTTCTC | TAGATAATAG  | 628860 |
| AAAAAGAAGA | GGGGTTATAG | GTTTTATATT | AAGATTTTTT  | GGTGTGGAAT | AAGACATTAT  | 628920 |
| GTTTATAAGC | AGGGAATTGA | AGTATATTTT | ATTAAC TAGT | GTGTCAGCAC | TGTTTATTTT  | 628980 |
| AGCAGTTTTA | GGATTGTTTT | GTGGTTTATC | ATTTTTTACA  | ATCTTAGTGA | GATCTTTATT  | 629040 |
| GCAGTTTGTA | TTTTTTTTTT | TTATTGGACT | TTTAATTGAA  | TATATCTTTA | AGAAATATTT  | 629100 |
| GTCGAATCTT | TTTTCAACGG | AATTGTCTGG | CAATATGGAA  | AATAAACCTC | AAGATGATAA  | 629160 |
| GAAGAGTGAT | AAAGATTTTA | AAGAGAATCT | TGATTTTCAA  | AATAAAAATT | CTCTTTTATGA | 629220 |
| GAATTCTCAA | AATATCAGTA | GTAGTGGTGA | TTTTATAGAA  | GAGGTAAAA  | AGTATAAATT  | 629280 |

|             |            |             |            |            |            |        |
|-------------|------------|-------------|------------|------------|------------|--------|
| TGAGACGGAA  | GACGTGAGTA | GAGGGAGTGA  | CAAAAATAAA | AAAATGTCAT | TTATTGAAGA | 629340 |
| TAATGATCCA  | AAAGTTGTTG | CAGATGCTAT  | TAAAACTTTA | ATGAGCAAGA | AGGAATAAAT | 629400 |
| ATGGATGACA  | GGGCTATAAA | TTTTTCTGAA  | CTTTGTGATA | AGATGCGATC | TTACTTAGAA | 629460 |
| AGAGAAAGTC  | ATGTTGATTT | AATGGAAATA  | GAAGCAGATA | CTCTTGAAGA | GGCCTTAAAT | 629520 |
| GATGCTTCTT  | TGGAGCTCTC | GGTACCTTAT  | AAAGAATTAG | ACTATGAGAT | TTTGTTAAAA | 629580 |
| GGTAGTAATG  | GTATATTGGG | ATATGGGAAG  | AAAAAATGGA | AAATAGTTGC | CTATAGGAAT | 629640 |
| TCTTCTAGCA  | AGCCTAAAGT | GTCCTCTTGAT | TCAAAAAATG | ATTCAGGTGA | AAAAGAAGTT | 629700 |
| ATTTTCATCAG | ATGGTGAATT | TTTTATCAGG  | AAATCTTCAA | AAGGTGTATT | TCTAAAGGTT | 629760 |
| ATCTCACCAA  | AAGGACAAGG | AATTCCTATT  | AAGTATCAAG | ATGTTATTTT | TAAATTAGAA | 629820 |
| TTGCATAGCA  | ATATTGAAAA | TTTCAATAAA  | GACATTGTGA | AAGGTATAGT | TGAGAATGCT | 629880 |
| AGTGGATATT  | ATGAAAAAAT | TGCTGATTTT  | GAATCTGATC | CTTCTGAAAA | TGTTACAATG | 629940 |
| ATGGTTCAAA  | TATCAGAAAA | TTCAATGTCG  | GTTACCATTG | AATTTACTGC | GCCTGGAATT | 630000 |
| AATGGAGCTG  | AAATTTTTGC | ACAAGATATT  | TTCAATATTC | TTAGAAAATA | TGGAGTAATA | 630060 |
| GATATTGCAA  | TACTTAAGGA | TAAAGTAGCA  | AAATTTGTGG | ATTATCCTGT | TTATGGCGAG | 630120 |
| CCTGTTGAAC  | TTGCAAGGGG | TCTAGAGCCA  | GTAAAGGGTA | AGGATTCTTA | TATTGATTTT | 630180 |
| ATTGTTGATG  | AAAATAATAG | GTTTGGTGAG  | TATGAGGTTT | CAAGCATAGG | ATTTAGAAAT | 630240 |
| GTAATTGAAG  | GCGAGGAGTT | GGCCAGAATT  | ATTCCTTTTG | GCAAAGGTGT | AGATGGTTAT | 630300 |
| ACCGTTTTTG  | GTAAAGTGTT | AAAATCAGAG  | AGTGGGCAGG | ATATTGATTT | TATTTTGGGC | 630360 |
| GAGAATACTT  | TTAGAGATGG | TTATAAAATT  | CGGGCAAAAT | GCAATGGGTA | TATGTCTGTT | 630420 |
| TCAGATGGTG  | TAATATCTGT | TCATAATATT  | TATTTAGTCA | AAGGTGATGT | TGGACCTGCT | 630480 |
| ACTGGAGATA  | TAGTAAATAA | TGGAATGGTT  | CTTGTGCAGG | GCAATGTTTT | AGATGGATAC | 630540 |
| AATATTATGG  | CCAAAAGTGG | AATAGAAGTG  | AAAGGATTAG | TGGGTCGGTG | CAATTTAAAA | 630600 |
| ACGGATGGGT  | CTATTATTTT | TCATAGCGGT  | GTAAATGGTA | AGGGTGATTC | TAAAATTTAT | 630660 |
| GCACGGGGTA  | ATGTTAGGGC | TAAGTTTTTA  | GAAAATGTCA | CCTTAAATTG | TGGTGGGGAA | 630720 |
| GTTGAAGTTT  | TAAGGGGTAT | TGTTAATTCT  | TCAGTTTCTT | CTAAAAGAG  | AGTTCTTTGT | 630780 |
| ATTGGTAAAA  | AATCAAAAAT | AGTTGGTTCT  | AATGTTTGTG | CAAAGAAGA  | GGTTAGGGCT | 630840 |
| TATTCTATAG  | GCTCTGATAG | AAGTTGTGAA  | ACCTGTATTG | ATGTTGGCTA | TGATCCTGAA | 630900 |
| ATTAAAGATT  | TACTAACTAG | GTTTACTAGT  | CATCTTGAAA | AGATTGAAAA | GCGATTAGAA | 630960 |
| GTTTTAACTA  | AAGATATTGT | TGCTTTAAAA  | AAGAATATTG | TGCTCATTAC | AGATAAGGCA | 631020 |
| GAAAAATCCT  | TAAAGATTGA | TAGTTACAAT  | GAATTTGTTA | ATGAGAGTAA | AATTCCTAGA | 631080 |

|            |            |            |             |            |            |        |
|------------|------------|------------|-------------|------------|------------|--------|
| ATGGAAATAA | AAATGATAGA | GGCTAAGCGA | ATTAATTTGC  | AAAATGAGCT | TGAAAATACT | 631140 |
| AAGATAGAGG | GTAAAGTTTC | TGTTGAAAAT | ATAGCTTGTT  | CAGGCGTTAA | GCTTTATATT | 631200 |
| AAGAATGCTT | TCTATGAGCT | TTCAAAAGAT | TATAACAACG  | TTACTTTTAT | AGAGGATGAT | 631260 |
| AATTATATTA | AAGTTATGAC | CTATATTCCT | TTTAAGTCTA  | GGTGAATAAT | TTTTAATATA | 631320 |
| AGGATTTGTA | TATGGATACA | TTTGAAGTTT | TTAAAAATGTC | TGTTGTTGGA | TCTTTTAAAG | 631380 |
| CTAGACAATT | TTTAAGTGAA | AGTGAAAAGC | ACAAAAGATT  | AAAAATTAAT | CAAAATGCTA | 631440 |
| GATTTAGATT | TTTAAGAGAT | TGTCATACTG | ATTCTGAGGT  | TGGCAATGTA | TGTGTAGTTA | 631500 |
| ATAAAGTAGG | GGATAATTAT | TTGCTTTCGT | TTCCAGTTAA  | AAAAAATAAA | AATGAAGAGA | 631560 |
| AGGTGATGCT | TAGTTTATAT | CCTGATAAAT | TTGAAGATCC  | TAAAATTGGT | AAAAATGTTA | 631620 |
| ATATTAAGAG | ATAAAATGTT | TTAGGGTTTT | TATATGTTTA  | TTGTTTTTTA | TCTTATTTTA | 631680 |
| ATTATATTTA | TTTTTATATA | TTTTCATGTG | TATATTAATT  | TGAAAATAAA | ATCTAATAGC | 631740 |
| ATACTTAGAA | AGTTTAAAAG | TGAGGTAGAT | AAAACAATTA  | TTGAAATTAA | TCAGGCTACG | 631800 |
| GATAGAAATA | TAAATATTAT | TGAAATAAAA | ATTGAAAGTT  | TAAATAGAAT | CATCAAAGAG | 631860 |
| GTTGATGAGA | GAATTGAAAT | TCTTGACCAG | AGGTTGTTAG  | GGTTTAATAA | TAGCTCTATT | 631920 |
| CCTGGCAATA | GCCCTTCTAG | TTTTGGATCG | AAAAGTGATG  | GAATTTATAA | AAGTAATTTG | 631980 |
| GATTATTCTA | TGCCTACTAT | TGAAAAAAT  | ATAATAAAAG  | AAAGTTATAA | TGTTTCGAAT | 632040 |
| CAGATTATTT | TACTTCATGA | ACAAGGTATG | TCTTTTGAAG  | CTATTGCTAA | AAAGTTTAAG | 632100 |
| TTAGATTTAG | GTGAGGTTGA | GTTGATTATT | TCAATACATA  | GGGGAGGTGT | TCATGAAAAA | 632160 |
| ATGGATAGGT | ATTGATCTTG | GAACCACAAA | TACTGTTGCA  | TCGTATTTTG | ATGTTAGTTC | 632220 |
| TAAGATAATA | TTAAATGAAA | GGGGTGAGCG | AATAACCCCT  | TCTATTGTTT | CTTCTCAGA  | 632280 |
| TAAGGATGTT | CTTGTTGGAA | GTGCCGCTAA | AAATCAAATA  | TTAGTTAATC | CTCAAAAAAC | 632340 |
| ATTTTATAAT | TTTAAGACCA | ATATAGGCTC | TAATAATTTT  | TATAAAGTAG | ATGGTGAATT | 632400 |
| TTATAAAGCA | GAATATATTT | CAGCACATTT | GCTCGCTAGT  | GTTAAAAGGA | ACGCTGAAAA | 632460 |
| ATTTTLAGAT | GAAGAGATTG | AAAATGCTGT | AATAACAGTC  | CCTGCCTATT | TTTCTGAGAT | 632520 |
| TCAAAGAAGA | TGTGTTGTTG | AGGCTGCAAA | TTTTGCTGGT  | TTGAATTGTA | AGGCCATACT | 632580 |
| TAATGAACCA | ACCGCAGCTG | CTATTGCTTA | TGCCTTTGAA  | AGACAGATTG | ATGGAATTTT | 632640 |
| TCTTATTTAT | GATCTTGGGG | GTGGAACTTT | TGATGTAACT  | CTTATGGAAA | AACAAGGCGA | 632700 |
| CACCTATACT | GTTCTTTCGG | TCAAAGGGCA | AAGTCGACTT  | GGAGGTAATG | ACTTTAATAA | 632760 |
| AATCATTGAA | AAGTATGTTT | TAGATAGTTT | TAAAAATAAA  | TATCCTGATT | TTAATCTAGA | 632820 |

|            |            |            |            |            |             |        |
|------------|------------|------------|------------|------------|-------------|--------|
| AGATATTTTT | CTTCTAGAAC | AGTTAAGAGA | GCGAATTGAA | GAGGGTAAAA | AAAATTTATC  | 632880 |
| TGTTATGGAA | GAGGTCGACA | TTACTTTGCT | TTTTCTTGAT | GGCAAGCATT | TGAATTATAA  | 632940 |
| TCTTAAAGG  | GATGAATTTA | ATTCAATGAT | AAGTGAATAT | ATTGACAAAA | CTATTCAGTT  | 633000 |
| ATCTATGGAA | TGTATTGCTG | ATTCTGGGGT | TGATATTAGT | AGTGTTTCAA | AAATCATACT  | 633060 |
| TTCTGGTGGT | TCAACAAGGA | TCCCCTTGAT | TGAAAAAGTT | TAAAGGAAT  | CCTTTCCTTC  | 633120 |
| TGCTACAATT | TTAGATGCTT | TAAATCAAGA | TGAAGTTGTA | GCTATTGGCG | CAGGTATTCA  | 633180 |
| TGCTTTTAGT | CTTTCTAGAA | ATGATTCTGT | TATTAAGTTT | AAGGATGTAA | CTCCTTATTC  | 633240 |
| TCTTGGACTT | GAGATAAAGG | ATAATGAATT | TTTTACTCTA | ATAAGAGAA  | ATACTGCTTT  | 633300 |
| GCCAATTTcT | AGAAGCAAAC | TATTTACGAC | TACTAATGAT | TATCAAGATG | AAATTGAGAT  | 633360 |
| TCACATACTT | CAAGGTGAAT | ACAAAAAAGC | CTCTTTAAAT | TATTCTATAG | GTAGGTTTTTC | 633420 |
| CTTTGGCAAT | ATTCAAAAAG | CTTTAAAAGG | AATTCCTAAA | ATTGAGGTAC | TTTTTACTTT  | 633480 |
| AAATGAAAGT | GGTATTTTGA | GTGTTAATGC | TAAAGATTTA | GAGACCAATT | CTTCTAATTT  | 633540 |
| TATTGAAATA | AAAATTACAA | GTTCATCTGA | TAATGTAGCA | AAAGAAAGTC | TTTCAAACAC  | 633600 |
| TTTTACAAGT | ATTATTGATT | AAAAACTCAA | AGAAACAAAG | ATATTTTTTA | AAAGTAATAA  | 633660 |
| ATTATTTTTT | CCAATATATT | ATCAATTTTT | ATAAATCCGT | AATCTCTTGA | GTCTAATGAG  | 633720 |
| ATCTGTTTGT | TTTCTCCTAT | AACTAAATAG | TGGTCTTCAG | GAATTTTTTT | AGTATTTTTT  | 633780 |
| TTTAAAATAT | TTTCATCTAT | TTTAAAGTTT | AAATCATGTA | TGCATATTGT | ATTTTTTTCT  | 633840 |
| ATTTGTTTAA | ATTTTTCTCC | TGGAATTGCA | AAAATTTTTT | TAATGGCAAT | TTTGTTTGTT  | 633900 |
| ATGGGATCTT | TAATAAGCAC | CATTTCAATT | TTTTGGGGGG | TTTTCCATAA | TAAAAGGTAT  | 633960 |
| TTTTGGTGCT | TTTTAATCCT | AAGTCCATAT | GCAAACCTGT | GATTTACAAT | CCAATTTTTT  | 634020 |
| TCAAATATTG | CTGGGGTCAT | TGATTGCGCT | TTTACTATGT | AAAATGATAA | GAATAACTTT  | 634080 |
| ATTAAGGTTA | TTAAAAATAA | GCAAGCGGCT | AAAATCGACG | CTAGTTCATA | TTTGTGAGCT  | 634140 |
| TTAAATATTC | TCATAACTTT | TAAACGATGC | TTTCATTCAA | ATGCAATTTT | CTATTGTATA  | 634200 |
| ATGAAATAGC | ATGTTATGAT | TATACCAAAA | AAAAAGCAAA | GGGTAGAAAA | ACGTAAAAAA  | 634260 |
| AATTTTTTAT | TCAATAGCAA | AAAGAGTGTT | AATTTTGAAT | TAAAAGATTT | TGCAATATT   | 634320 |
| TCTAATATTG | GTAAAAGAAG | AAAAAAAGTT | TTTAAGATTA | AGAACTTCTT | TAAAAAATAA  | 634380 |
| ATCAATTTTT | TTAAAAAGT  | TTCTTTATTT | TTCTATAAGC | TTAAAATACA | AAATATTAAT  | 634440 |
| CATTATGAAT | ATAAATATTA | TTACAAGAGC | TTGAGAGATA | AAGTTTTTGA | TATCTTTAGT  | 634500 |
| GTAAGATTCG | ATTATAAACT | TGTTTTTAAG | CTTAATGCAA | TAATCTTTAT | TTTTATATTA  | 634560 |
| ACATTTTATA | TTAACATTTT | TTCTTATTAT | GGCTCGTATG | TTTTTTTAAA | TAGGCTTTCT  | 634620 |

|             |             |             |            |            |             |        |
|-------------|-------------|-------------|------------|------------|-------------|--------|
| TTGCCCCAAAG | ATTATTTTAT  | TGATACATTT  | TTATATTATA | GTGATCAAGA | TATAGCTCAA  | 634680 |
| ATTAGTAGTT  | ATTTACCTGA  | ATCCAATGTT  | TCTGCAAATG | TTCCTGGATT | TAAAAAAAAT  | 634740 |
| TTTGTATTAA  | AGGTATTTGA  | TCATAAAATT  | AAGCCTGGAG | AAACGCTTTC | GCATGTTGCA  | 634800 |
| GCTAGATATC  | AAATAACCAG  | TGAAACTTTA  | ATTTCTTTTA | ATGAAATTAA | AGATGTAAGA  | 634860 |
| AATATTAAGC  | CAAATTCAGT  | TATTAAAGTT  | CCCAATATGA | AAGGAATTGT | TTATATTGTT  | 634920 |
| AAAAAAAATG  | ACTCTATCTC  | ATCTATAGCT  | AGTGCTTATA | ATGTTCCCAA | GGTTGATATT  | 634980 |
| TTAGATTCTA  | ATAATCTTGA  | TAATGAAGTT  | TTATTTTATG | GGCAAAAGTT | GTTTATTCCT  | 635040 |
| GGGGGAAGAT  | TGCCCCAAGA  | TTTTTTAAAA  | GAGGTATTAG | GGGAGACTTT | TATTTATCCT  | 635100 |
| GTGCAGGGTG  | TTATTACTTC  | GGGGTATGGC  | TATCGACCAG | ATCCGTTTAC | AGGAGTTATT  | 635160 |
| AGTTTTTCACA | ATGGAATAGA  | TATTGCAAAT  | TTAGCTAATA | CGCCTATTAA | AGCCTCAAGA  | 635220 |
| GAAGGTGTTG  | TTGTAAC TGC | AGGATTTAAT  | GCGGGAGGGT | ATGGAAAATA | TATTGTCATT  | 635280 |
| TCTCACAGCA  | ACGGATTCCA  | AACTTTATAT  | GCACATTTGA | ATTCTTTTGC | CGTTAAGGTT  | 635340 |
| GGAAAAAAG   | TTTCAAGGGG  | AGCGGTAATA  | GGTTATATGG | GAAGCACTGG | CTATAGTACG  | 635400 |
| GGCAATCATT  | TGCATTTTAC  | CATTTTTAAA  | AATGGTAAAA | CTGAAAATCC | TATGAAATAT  | 635460 |
| TTAAGATAAT  | GTTTTTCATG  | TGTATTTGGA  | TATGTTAATT | TTTTTAAGTA | TTTGAGCTAG  | 635520 |
| TTTTTTTTCCT | TCTACTAGAT  | CAATAAGTCT  | TCCTTCAATC | ATTGTTTATG | CCTTTAAAGA  | 635580 |
| GAATTTTGAT  | GGAGCAATAC  | AGAGTCCTTT  | TATTTTATTT | TCTTTTATTT | TTGAAATGAA  | 635640 |
| ATCTTTTAAAG | AATAATTCAC  | CAAAAGTATC  | TTGTTTCAGT | CTTACAAAAC | GCACTATTAA  | 635700 |
| ATTTTCTTCC  | CACTGATTGT  | TAGCTAAGTG  | AAAGTTTATG | TCAATAAATT | GTGTTGTTAC  | 635760 |
| TTCAATTTATT | TTAGAATCTC  | TTATTTGAAA  | TTTATTTAAA | TATAGTTTAA | AAATAATTTT  | 635820 |
| ATTTGCTATT  | TTTTCAAAAT  | TTTCTTTTGA  | ACTGCGCAAA | TATATTCTTA | GGGCTATGTT  | 635880 |
| TTCTGTTTAA  | CTTTTGCTAA  | ATTCCAATTT  | TTCTTTAATA | TTTTTGTAAT | TTGGATCAAT  | 635940 |
| CTCTTCAACT  | TTGGTAAAAG  | CTTCTGTAGC  | TTTTTGATAA | TTTCAACAG  | AGATTTGAAG  | 636000 |
| TTCTCCAAGA  | TTATAAAATA  | ATTCAAGGAA  | AGTTTTTTTA | GGCAAGTCGG | GTTTTACTTT  | 636060 |
| TATTATTTCT  | TTAATATTTT  | GTTCTAATTT  | TTCTAATTCT | TTATTTTTTG | AATGAATCTC  | 636120 |
| AGATGTAATC  | AATAAAGCCT  | CATAAATCAT  | TCCATCTTTT | TGTTTTATTT | TGTTGGCAAT  | 636180 |
| CTCTAGTGCT  | AGATGATCTT  | GATTCATTTT  | TGATAAAGAT | TTAGCATATG | CCAAAAGAGC  | 636240 |
| TTCAATGTCT  | CCTTGTATAT  | TTTTTTTTTAT | ATTGTTAAAT | ATTATAACAG | CTTGTCTGTA  | 636300 |
| GCTTTCTAGA  | TTAAATAAAG  | TTATTCCTAG  | GTGTTTTAGG | ACATCTTTAT | TATTTTTTATT | 636360 |

|            |            |             |            |            |            |        |
|------------|------------|-------------|------------|------------|------------|--------|
| AAAATTGTGG | ACTTTTTTAA | GATAGTATAG  | AGCTTCTTTA | TACATTTCGT | TTTTTAAGAA | 636420 |
| TGCTACACCA | AGATAATAAT | TTGCATCTTC  | ATCTGTTTTT | TTAATCAGAA | AAGCTTTTCT | 636480 |
| TAAATATTCT | AAGGCTTCTC | TGTTAAAAAT  | TCTTTTAAGA | TTATAAAATC | CATAACTTAA | 636540 |
| AAAAGCTTTA | AATGTGTTTA | TTTCTTGGTT  | TATTGGGTTG | TCTTCTATTA | ATTGGCATAA | 636600 |
| TTTTTTTGCA | TATTTTATGC | CATTTTCATG  | GTCTTTATTT | TTATAGTAGT | AATTATTTAA | 636660 |
| AATTTCAAGG | GCACCTATTT | CGTTTGGATT  | TGTTTTTAAT | AGGGAAATTG | CTCTTTCGAT | 636720 |
| TAATTTTCGC | GTTCTCTCAT | CATCTTTTTT  | GATTTTCCCT | ATATTTTTAC | CTATTGTAAG | 636780 |
| TTTTAATGCT | ATTTTAAAAA | ATAAAAAACAC | TAAAATAAAT | ACTGTCAATG | AAGAGATTAC | 636840 |
| TATAAATAGT | GACAACACTC | GTATTGCTCC  | TAAATTAAAA | ATATCCCATT | AATTGTCATC | 636900 |
| ATCATAGTTA | CTTTTAATAA | AAGTTATTTA  | CTTAAAATAA | AAGTAATTTG | TAAGTTGAAT | 636960 |
| ATCACATTAT | TTATATTATA | TTATAGTTAT  | AATAATAATG | ATAACTATAA | TTAGTGCGTA | 637020 |
| AGTTTGGTTT | CAATAAAATT | AACAAAGCAA  | AGAGGTTATG | ATTTTTGAAA | GGGTTTTTAG | 637080 |
| CGATAAAATT | ATCTAATAAT | GAGTATTATC  | CGGTTTTTAA | TTTAGATGAT | AGTTCGTGTA | 637140 |
| AGAGAATAAT | ATTGGGCAAG | GTTGCAGGTG  | ATACCAGTAT | TAAGTTGAAT | TTATATGTTA | 637200 |
| GTGAATATGA | AGATTTTTTA | GATCCTTTTT  | TGGTTGGTTC | TTTTTCTTA  | GATAATTTAA | 637260 |
| AAAAGGAAAG | CTTGAGTGTC | AATGTTTATT  | TTAAAGTTGT | GGATGAAATA | CTTTATGTTT | 637320 |
| ATGGTGAATC | TGATGGGATT | CAAGATAAAT  | CGAAGTTTGA | TTTAAGCCTT | GTAGATTTTA | 637380 |
| ATCAAAATTT | AAAAGGATCT | AATAGGGGTA  | ACCCTTTGAA | TGATTTTAAA | AGTGACATTG | 637440 |
| GCAGTGATTT | GTCTGTTGAA | AATTTGGGTT  | CTGAATTTGA | TTTAAATTTT | GAAGAAAAAG | 637500 |
| ATGATTTTGT | TAAAAAAGAT | GTTTCTGATG  | TAAGTATGCC | TACTATTAAT | TCTTTAGATC | 637560 |
| TAAAAACCGA | AGAAGACCAA | AAAATTGAGA  | CAAATGTTTC | AGATTTTGAA | GATTTTGATG | 637620 |
| ATAATTATGA | CGATAGTCTT | GTTGATTCTA  | AAAAGCTTAA | TTTAGAAAAT | AAAAAAGTTG | 637680 |
| AGTATATTGA | CGAGAAGTCT | TTAAATCTTA  | ATAATTTTGA | GTTTCAAAAA | TTAGAAGAAT | 637740 |
| CTTCTTTAGA | AGAAGAAGAT | TTGCATGATT  | TAAGCGTTGA | AGACATTATT | GCAGATATTG | 637800 |
| ATAAAGAGTT | AATAGATACT | TCAGATGAAG  | ATGTTGAACT | AGATCTTAGA | GAAGATTTTG | 637860 |
| AGAATGATAT | GGTAAAAAAC | AATTTTAAAT  | TAAATTCAAG | TGAGGGAATG | GTTTATTCTC | 637920 |
| CTATGTTATA | TTTGAGTCTT | ATTTCTCTTT  | TTCTTTTGAT | ATTTTTTTCT | TTGTTTTTAG | 637980 |
| TTTTTTCAAA | AATTTTAAAA | CCTAGAGATT  | TTGTTTCATA | TTACTTTGAA | TATGATAAAA | 638040 |
| ATAGAATTAA | GAGATATGAA | AAAGATCAAT  | ATGTTTAATA | GAAGTTCTTG | TGTATTACAA | 638100 |
| AATTTTCTTT | TTCTTTTTTT | ATTTTAAAGT  | TTAGTTTCTT | GCTTTGCAAA | AAAAGAAATC | 638160 |

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|------------|------------|------------|------------|------------|------------|--------|
| TCAGGCAATA | ATTTTATTAA | GGCGCATTCA | AAAGAGTTTG | ATTTAAATAA | TTTAAATTGG | 638220 |
| TTATGGAATT | TTGATTATAC | AAAAAAAAAT | TTTGATAAGC | ATTTTAACAT | AGATCCAAGT | 638280 |
| TCTTACATAT | ATGTTGCTTA | TTTATTTAAA | AAAATAGGAT | TTGAAGAGAA | ATTTGTAGAG | 638340 |
| TATATGAAAA | AGGCCATAGC | TAATGGAGAT | AGCATTGCAT | CCCAGTTTGC | TGGGATTAAG | 638400 |
| CTTATTGAAT | ATTTTAACTC | AGCAAAAGAG | TATTTTGCAT | CTGAATTGAT | TGGAGAGAAG | 638460 |
| CTTTATAAAA | AATACGAAAA | TAATAAATTT | ATTATACTGG | GGTACTTTAA | AAGTCTTTAT | 638520 |
| TGGCAAAAGA | AAAACGATAA | GGCACTTAGT | CTTTTAAATA | AGCTTGATAA | GATGAAATTT | 638580 |
| TCTGATTATC | AGGAAAATGA | AAATATTTTA | TTAAAAGCAG | TTCTTTACCT | TAATCTTTCT | 638640 |
| AATGTAAGTG | AGTCAAAAAT | TTATTTTAAT | GAGCTTTTTG | AGAACTTACC | TGCAAATTAT | 638700 |
| TTACATGTAA | GAGCTTATGA | TTATTTTATT | ATTGAAAATA | AGTCTAGGTA | TTTTGGTGCA | 638760 |
| AATTTTTTAA | ATCTTGTTAG | ATTTAAGTAT | GAAGTGGCAA | ATGGCAATTT | TAATGGTGCA | 638820 |
| ATAAATATAT | TAAATAAAAA | TGGTTTAAAT | GATTATTATG | ACAATAACAT | TGTATTAAGT | 638880 |
| GATGTTTATA | AGGCTTTTAT | TAGTTCTGGC | AAAGTTTCAA | ATGCTTTAAC | ATTTTTTAGT | 638940 |
| AAAATAAAGA | GCAAATATAA | AAATTATTAT | TTAGGTATTC | TAAACCTTAG | AGAGAAAAAT | 639000 |
| AATTTAGGAC | TTCTTCTTTT | AAAAGAATAT | CTTGAAGGTT | TAGATCTTAA | CAATGAGATT | 639060 |
| AACAGGCTTG | ATTTGCTTAA | TACTGCTTTT | AGCAATTTAA | TTTTTACTAA | GAGCGCAAGG | 639120 |
| GATTATTTTG | CCGAAAGTTT | ACCCAAGTTT | TATACCGAGG | GCGATAAAAA | AAATCTTACT | 639180 |
| TTTATTAAGA | TTTTAGAAGA | GTATATTTTG | GAATCAATTC | AGCTTGAAGA | CTATGGCAAT | 639240 |
| CTTTATAAGC | TTTATTCTAA | TGCTCAAAAA | GTTATTTCTA | ATTCTGTTTT | GTCTAAGCTT | 639300 |
| GCTTTTATTA | ATGCAAGGCT | TATATATCAT | AAATTAATTA | AACCTAACGT | AAGCGGAGAA | 639360 |
| TACAAGAGTC | TTTTGCATTC | TGCTGTTAAT | TATGATAAAT | GGTCTTATTC | TTCATTTATG | 639420 |
| AGTAGGTACT | TATTAGATCA | AAATATTGAT | GAATTTTTTA | CAGGTGGGTC | TGATATTAAG | 639480 |
| TATGAGCAAT | CCGATTATGA | GATTTTTTTG | GAAGGGTTTT | TAAAATTCAA | TCTTTGTAAT | 639540 |
| TATGTTAGAG | GGTTTATTTT | TGAGGATTTT | AGGAATGGAT | ATAAATTTTC | ACTTGATTTT | 639600 |
| TATCGAAAAG | TATACGATGA | ACTTTTAAAG | AGTGAAAATT | ATTACGATGC | AACTCTTGTC | 639660 |
| ATTAATTATC | TTGTAAATCA | AGATGAATCT | GCTTTAATGG | AGAATGACTA | TAAAAGACTT | 639720 |
| TATCCTTATT | TGTATGGATC | TTTGATAGAA | TATTGGGCTA | AAAGGAGAGG | GCTTGAAGCT | 639780 |
| AGTGTGTGAT | TTTCTTTAAT | AAAAGCAGAG | AGTAGCTTTG | AAAAAATGTC | TGTCTCAAAA | 639840 |
| CCGGGTGCTG | TTGGCCTTAT | GCAGGTTATG | CCATCAACAG | CAAATGATAT | TTCTAAAGAA | 639900 |

|             |            |             |             |            |            |        |
|-------------|------------|-------------|-------------|------------|------------|--------|
| CTTAAGTATT  | TTAACTATGA | TTTAAAGATT  | CCAAAAGATA  | ATATAATAAT | TGGAACATAT | 639960 |
| TATTTAAAAA  | AAAGAATATC | TACAACTGGC  | AGTCTTTATA  | AGGCTCTTGC | GTCTTATAAT | 640020 |
| GGGGGTATTG  | GTAATGTTAG | AAAGTGGGAG  | AAAAGTTATG  | GACATTTGTC | AAAAGAGCTT | 640080 |
| TTTATTGAGG  | CAATTCCTT  | TAGTCAAAC   | AGGAATTATA  | TTAAAAAAT  | ATTAGTTTAT | 640140 |
| TCGGTATTTT  | ATGATGCTTT | GTATGAAAAG  | AAGGGAATAG  | ATTCAGTAAT | AGTTAAAATT | 640200 |
| ATGGGCGAAT  | TCCCCAAAAA | TTAATATTGG  | AGCATTTAAT  | GACAAATATT | TTAAGTGCAA | 640260 |
| TTATTTTGGG  | CATTATTCAA | GGCATTACAG  | AGTTTTTACC  | AATATCTAGT | TCGGGACATT | 640320 |
| TATTGCTTTT  | TAGGCATTTT | ATAAATTTAA  | AGCTCTCAAT  | AATATTTGAT | ATTTATTTAC | 640380 |
| ATCTTGCAAC  | AGTTTTGGTG | ATTATTATTT  | ACTATCGTAA  | AAGGATTTTG | GAGCTTTTTT | 640440 |
| TAACTTTTAT  | TAGATTTTCT | TTAAGAAAAA  | CTGTAAATC   | TGATTTAACA | AACTTAAAT  | 640500 |
| TAATATTGCT  | AATATTGATA | ATAACCATG   | TTACCGGAGT  | TGTTGGGACT | TTTATTTCAA | 640560 |
| AATACGAGAG  | TATGTTTACA | TTGTCTTTTCG | TTTTAATTAA  | TTTTATTATA | ACAGGGATTT | 640620 |
| TAATCTTGAT  | GCTAGAATTT | AATTTTTTTAA | AAGTTGATTT  | TAAAGGTAAT | ATTTTGTTAG | 640680 |
| CAGGAATTTT  | TATGGGGCTG | ATGCAAGGCT  | TGGGTGCGCT  | TCCAGGAATC | TCTCGTTCAG | 640740 |
| GAATTACGAT  | CTTTTCGGCA | TCGGTTATTG  | GATTTAATAG  | AAAAAGTGCA | TTTGAAATTT | 640800 |
| CATTTTTTATC | TTTAATTCCA | ATAGTTTTTG  | GAGCGATTTT  | ATTAAAACAT | AAAGAATTTT | 640860 |
| ATGATATTTT  | TATGGTTTTA | AATTTTTTTTG | AAATAAACTT  | AGGAGCATTA | GTGCTTTTG  | 640920 |
| TTGTTGGTAT  | TTTCTCAATA | AATTTCTTTT  | TTAAAATGCT  | TAATAACAAA | AAACTGTATT | 640980 |
| ATTTTTCTAT  | ATATTTATTT | GCACTTTCAA  | TTATAGTTTG  | TTATTTTGTT | AGAATATGAA | 641040 |
| AGATTTTTTAT | CAGTATTTTC | AATTTTTGTT  | TTTTTTCATG  | CTTTCGGTTA | TTTCTTTTTC | 641100 |
| TCTTTTTGTA  | GCATTAACCC | CTTTGAGCAA  | TGTATTTGTA  | TTTTTTGTTT | TCAATTTACT | 641160 |
| AGGGCAAATA  | CTTCTTAATG | TTTTTTTCATT | TTTGTCAAT   | TATTTAATAG | TATATCCAAT | 641220 |
| TGTTAATTGG  | TACGCCTATA | AAAAACATAT  | TTTTACTAAA  | CGATTTATAT | TTAATTGGAA | 641280 |
| TTATACCGTA  | ATATTGTTTT | TTACTTTAAT  | ATTTTTTAATA | AAAATTAATT | CTAATGTTGA | 641340 |
| AAAATCTTAT  | TTTATTAAGA | TATTTCTTAT  | TAATTTTGGT  | ATAGTATTGG | GGAATTTTTT | 641400 |
| TATTTTTTACT | CTTTTAATTT | TAGAATTTGT  | TGTGTGGATT  | TACTTAAATT | ATGTCTTTTT | 641460 |
| TAAGGATGTT  | AATTTTATTT | TAGATACTTT  | TAAATTTTTTA | GAGTTTAAGA | TTAAAATTTT | 641520 |
| GTTTGAAAAT  | ATATTAAGTT | ATTTTCCCTT  | TTCAAATTCA  | TTGGATGTAA | AAAAAGATAT | 641580 |
| TAAAGTTTAT  | GGAGATTCTG | TAGATGATCT  | TAAAGATTCT  | CAAGTTTTTG | ATGAAAAAAA | 641640 |
| GAATATTATT  | AATGATGAAG | AATATCAGGC  | TTTATGGTCA  | TTTAGCGCCT | TTTTAAGAAA | 641700 |



CAATAAAAAAG CCTTCCAATA TTAATTTAGA CAAAACCTATT TTTGAAGGCT CAGATCTCAA 641760  
AGAAGCAAGC TCTTTAAATA AGGATATTTT AAATGAGAAT GCTTTAAATT TAGATGAAAA 641820  
TG TAGATGAA ATTGATGAGT CTTGTGAGTA TAAATATTTA GACAATCTTG AGGATAATAA 641880  
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CGTTATTGAT ATTTCACTTT TTGACCAGAA AGAGATTAAA AATGATGTAG AGGATATTGA 642060  
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AAGAGAGGTG TTAATTTAAA ATAAAGAGAT ATCCATTTGA ACATCTCTTG TGCGATCTAT 643440

|            |            |            |             |            |            |        |
|------------|------------|------------|-------------|------------|------------|--------|
| CTATTAGTTT | TTTGTTTTAA | TTTTCTTACT | TTTTTTGCCT  | GTTTTCTTTT | AAAAGCTTTT | 643500 |
| TCCTTTTTTA | CACGTATTGT | GGATGGTTTT | TCATAGTATT  | CTCTTCTTTT | CCATTCGCGA | 643560 |
| ATAATTGCTT | CTTTTCAAT  | CATTCTTTTA | AAACGTTTCA  | ATGCTTTTTT | AAGATTTTCA | 643620 |
| TTTTTGTCCA | CAGTGACTGT | TACCAAAAAA | TCACCTCCTT  | TTATTCTATT | CTTTTAATAT | 643680 |
| TATTTATTAT | TTTATTTTTG | TCAATAAGCA | TGCCATTTAA  | AAGGAAATCT | GGGTTTATTG | 643740 |
| CTATGCCATT | AATTCTTACT | TCAAAGTGTA | AATGAGGGCC  | TGTTGAAAGG | CCTGTATTTT | 643800 |
| CAGTATGTCC | AATATATTCC | CCAGCACTAA | CTATTTTATT  | TTCACTTATT | CCCAATTTTG | 643860 |
| AGAGGTGAAG | ATAAATTGTA | AATACTCCCG | GTAAATGTTG  | TATTATAAGG | GTATTGCCTG | 643920 |
| TTAGCTCTCT | ATTTTGTGCA | AACACAACCT | TTCCTTTGCC  | AGCAGCAAAA | ATCGGAGTAT | 643980 |
| TTTCTCTTTT | AAATGGGGCA | TAATCAATTC | CATTGTGCAT  | TGTATAATTT | GAAATTTTTT | 644040 |
| TGTCACCTTG | CATGTAAAGT | CTTAAATCTC | CGTATAGGCT  | TGTTACAATG | TATTGATCTT | 644100 |
| TTATTGGTTT | GAATAAGCA  | TCGTAGTGGT | ATATTGTTGT  | GTCTCCAGTA | TTGCCAATAA | 644160 |
| TATTCCACAA | AACCAAAGCC | TGTTCTTTTT | GTTTTGTTGA  | TTTTTTTTTG | GTGATAAGCT | 644220 |
| TGGCTTTTTT | TTTATTAAAA | CTAATTTTTG | TTTTTTTTGAA | GTGAAATTTT | TTTATTCTTA | 644280 |
| TTTCTTTGAT | GTAGCTTTTA | TTTTCAAATT | CTATTTGAAT  | TTTTCTTTTA | CCTTCTTTTA | 644340 |
| TCATTGGTGT | AATTCCCATA | AGTGCTATGT | AGTAAATTTT  | ACTTCCTACT | GTAAATTTAA | 644400 |
| ACGGAGAAGA | GCTTATGATT | GGATTTTTAT | TTGTGCTTAA  | AAGTGATAAA | CTTTTAAAGT | 644460 |
| TTTGATTACT | TGCAAAGTAT | ATGTAATCTC | CTTGAAATGC  | CTCTTTTTTA | TATTGGACTT | 644520 |
| TAGGAATAGT | ATTTATTATT | TCTGAATTTA | TATTTTCTAT  | TCCTAGAATA | CACAGTATAA | 644580 |
| GTAGGGCTTT | TTGTATTCTA | TACATTGATT | TGAGCATTCT  | TTTTTATGTC | TATGATTTTC | 644640 |
| AAAATTTTTT | CTCTAGGATA | ATAAAAATCT | TCATTAAGTG  | TAAAAATGAT | GTCTAAATAT | 644700 |
| TGATCTTCTT | TTATATCCAA | TTCTTCTATT | TTTTTTGTTC  | CGTTAAAAAA | AATAGCTTTA | 644760 |
| TAATAATCGT | TTTGTGATTT | AATTCGCATA | TTTATATGTT  | TTGAGCTATG | ATTTTTGTCA | 644820 |
| ATTATTTTGA | GTTCTTGAAG | GTAAGCATTT | TTCATTAATA  | ATATTGGCTC | TCTAAATTCA | 644880 |
| TAGCCATAAG | GTTCAAATAT | TTCTATTGTT | TTGAAAAGAG  | AATCTTTTGT | TAAATTTTTT | 644940 |
| GGAAGAATAG | CATCTATTGG | TATTGATTCG | TTTTCATTAG  | TAGTTTCATA | TTCAACTTTT | 645000 |
| GTAGTTGCAT | ATTCTAATTC | TTTAATAAAG | TCTTCGAGTA  | AATTTTCATG | CAGCGTAAAT | 645060 |
| CCAGCTGCAG | CTTTATGGCC | CCCCGAATTT | ATTACTAAAT  | GGGAAGGTAT | TATTGATATT | 645120 |
| AGTGTTTTTG | AATTGATTTT | ATTGTTTGAT | CTAATTGATC  | CTTTAATAAT | GTTATCTTGC | 645180 |
| TTTGTTAAAA | AAATAGCAAC | TTTTTGATAG | TAAGAAGAAA  | GTCTAGTTGC | AATTCTAGAA | 645240 |

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TTGATTGCTT TATTAATTCT GTTTATAAAT TTATCTATAT TTTTAAATAA AAATGGGTTG 646560  
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TTTATAAGTA AAGTTGCCTC AAAGGCATTG ATATTATATT GCTTAGCAAT GCGAGTTAAT 646680  
TCTTGGGCCT GTATATTAGT TTCTTTTTGT TTCAAATTT TCATTTACTT CTCTAGAATT 646740  
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ACTATAATCC AAATTAATGG TCATAATTTT AACTGTTAAA ATTCCTCATTT TATTATTTTA 646920  
TAATAAAAAA AATTATTATT AAATGAATTT CCATAAAATA TTTGTTTTGT TATAATTAGC 646980

|             |            |            |            |            |            |        |
|-------------|------------|------------|------------|------------|------------|--------|
| TTAGGAGATT  | TCAAGTTT   | TGGATGAATC | TAAAAAAGCT | AGGTCAGGAG | ATAAAAAAAA | 647040 |
| AGAAAAAGCC  | GTAGCTGGGA | TTTTACCCCA | TTCTAATAAG | CCCGCAAGAG | TGCCTTTAAT | 647100 |
| AGCGGTTTCCT | TCTCATCCAG | TTTTTCCAGG | GATGTTTATT | CCGATTGTTT | TAATCTCTGA | 647160 |
| TTCTGATATG  | AAAGCAATCG | ATTATGCTAT | GAAAGGCAAT | GGGATCATTG | CCTTATTTGT | 647220 |
| TTTGAATGAT  | AAATTTT    | AAAAAATAA  | CAATAATGCT | CAACAGAAAT | TAATTATTGA | 647280 |
| TTATAGTAAA  | GATATTTATT | CTGTTGGAGT | TACTGGAAAG | ATAATAAAAA | AAATTAATCT | 647340 |
| TCCAGATGGT  | GGTTACAATA | TATTTGTTTC | AACTTTTGAT | AGGATTAAAT | TTGTTAAAGT | 647400 |
| TGTTCTTAAT  | GATAAGTTTC | CCATAATTGA | GATTGACTAT | TTAAAGCAAA | TTCCAGTTAG | 647460 |
| AAAAGATGAT  | ATTCAATCAA | AGGCAGTTTA | CGGTAGTATT | TTGCTTAGAA | CTAAAGAAAT | 647520 |
| ATTTGCACAT  | AGGAAAATGC | CGGAAGTTCA | ATTAAATATG | GTTAATATTG | AAGATAAGGG | 647580 |
| AAAACATATGT | GATATTGTGG | CTAGCACTAT | TTCGTCTTCA | AAAAATGATC | ATCAAATAGT | 647640 |
| TCTTGAAACT  | TTGAATGTAA | AAGATAGGCT | TAAAAAAGTT | TTAGAACTGA | TTTATGAAGA | 647700 |
| GCTTAATTTA  | ATTGAAATTC | AAAATAAAAT | TGCCAAGGGC | ATTCAAGAGA | GATTAGAGAA | 647760 |
| ACAGCAAAAA  | GAGTTTTTTT | TAAAAGAACA | GCTTAAGGCT | ATTAAAGCTG | AACTTGGCAT | 647820 |
| AGGAGATAAA  | AAAAGCAGCG | ATTTAGAAAA | GCTTAAACC  | AAGCTAAAGG | CTTTAGAGTT | 647880 |
| GAAGGGAGAG  | CCTTTAGAGG | TAGTTGAAAA | AGAGTTAGAA | AAATTTTCAC | TTCTTGAAAC | 647940 |
| AAGTTCGGCT  | GAATACATTG | TTGTTAGAAA | TTATCTTGAG | CTTATTACTG | AGCTTCCTTG | 648000 |
| GCGAGATTTT  | AAAATTAATT | TTGATAAATT | AGATTTGCAA | AAATCTAAAA | AAATTTTAGA | 648060 |
| TAAAACTCAT  | TACGGAATGA | ACGAAGTTAA | GGATAGAATT | ATTGAATATA | TTTCTGTTCT | 648120 |
| TAAGTTAAGA  | AAGACTCAAA | AGGGGGCTAT | TATTCTTTTG | GTGGGACCTC | CTGGCGTGGG | 648180 |
| AAAAACTTCT  | ATTGGGGCAG | CTATTGCAA  | GGTTTTCGCT | ACCAAGTTTT | TTAGGTTTTT | 648240 |
| TGTTGGTGGA  | ATGCGCGATG | AGTCGGAGAT | TAAGGGACAC | AGAAGAACTT | ATGTTGGTGC | 648300 |
| TTTGCCTGGA  | AAAATTATTC | AGGGCTTAAG | AATTACCAAG | ACAAATTCTC | CTGTTTTTTT | 648360 |
| AATTGATGAG  | GTGGATAAGA | TTTCTGCTTC | AAGCTATGGG | GATCCTTTTT | CGGTTCTTCT | 648420 |
| TGAGGTTTTA  | GATCCTGAAC | AGAATGTTAG | GTTTAGAGAT | CATTATCTTG | ATCTTCCTTT | 648480 |
| TGATATTTTCG | AATGTATTTT | TTATTTTAAC | TGCTAATTCT | GTTGAAACAA | TACCAAGACC | 648540 |
| TTTGTTAAAT  | AGAATGGAGA | TTATTGAAAT | TTCTGGATAT | ATTGATAACG | AAAAAATAGA | 648600 |
| GATTGCAAGA  | AAGTATTTAA | TTCCCAAAGT | TTTAAGTGAA | AACGGAGTTG | ATAAAGATTC | 648660 |
| TTTAAAATTT  | CAAAGTTCAT | CTCTTGTTCA | AATTGCTCAA | GAGTATGCAA | GAGATAATGG | 648720 |
| AGTGAGAAAT  | TTTGAAAAAT | ATTTAAACAA | AATTGTAAGA | AAGGTTGCTA | GAAAGCTTAT | 648780 |

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| TGAGAATACT | GAGGTAAAT  | CTTATCAAAT | TTCCAATGAC | AATTTAGAAG | AATATGTTGG | 648840 |
| TGTGCCTGTT | TTTAGAAAAG | AAAGCATGCC | TAATGCTATG | TATTCAGGGA | TGGTAATGGG | 648900 |
| CCTTGCTTGG | ACAAATTATG | GAGGTCAAC  | TTTGATGATT | GAGACTGTAA | AGACGGAATC | 648960 |
| CAAGGTGGGT | GGAATTAAAT | TAACAGGTAG | ACTTGGGGAT | GTTATGAAAG | AATCTGCTAA | 649020 |
| TATTGCCTAT | ACTTATGTTA | ATAGCATTA  | AGGAGATTTA | AGTATTAGTA | AATCTTTTTT | 649080 |
| TGAAAAAAT  | ATTATTCATT | TACATATTCC | AGAAGGAGCT | ACCCCAAAG  | ATGGGCCTTC | 649140 |
| TGCAGGAATT | ACAATAGCTA | GTGCTTTTAT | CTCTCTTGCT | CTTAATAAGG | TTGTTAGACC | 649200 |
| CCATTTGGCT | ATGACAGGAG | AACTTTCTCT | TACTGGGAAT | GTAATGATGA | TAGGGGGCCT | 649260 |
| TAAAGAAAA  | ATAATTGCAG | CAAAGCGCAG | TGGCGTGGAG | CATATTATTG | TTCTAAGGC  | 649320 |
| AAATAGAGTG | GATTTAGAAG | AGATTCCTAC | TAACATTAAG | AGCGGAATTA | ATTTTTATCT | 649380 |
| TGTAGATAAT | ATGCGCGAGG | TCATTAAATT | ATTGTTTTAA | TTTTTTAAAA | TTGTTGTTTG | 649440 |
| AGGCTAGCTT | TACTCTAGGT | TTAAATAAAT | AAATTAATAA | TGGAAGAAGA | GTTAGTGATG | 649500 |
| CAAGAGATGT | CGTTAGCATT | GTAAAAGCAA | TTATTGCTCC | AAGAGTTGAT | ATTATTTTAT | 649560 |
| AAGACGAAAA | TGTTAGAGTT | AAAAATCCTA | TTCCAACAGA | AATAGAATTT | GCAAATATTC | 649620 |
| CATTAAATAC | ATTGGGTATT | GATTCAAGAA | GTGCAGTTTT | GTAGATTTGA | TTTTTTTGGT | 649680 |
| ATTGTAAAAT | AAATGTATTG | AAAAAATGAA | TTGAATAATC | TACTCCTACT | CCCATGCTTA | 649740 |
| CAGATGCAAT | TGTTGCCGTT | GCGGGGTTTA | AGGTTATCCC | AAATAATCTC | ATTACAGCAA | 649800 |
| AGTTTAAAAA | CACTGACCAT | GCTACTGGGA | TTGCAATAAT | TATTCGGTT  | TTTATAGATT | 649860 |
| TAAAGAAAA  | CATAAGTAGT | AGTGTTATTG | ATCCAAGAGT | TGTTATAATG | TTTATAACCT | 649920 |
| GTTCTTTTAC | CATTGTTTTA | GCTATTAATA | CCTTATCATA | AACACCTGAG | AAATGATATT | 649980 |
| TATTATTTTT | CATATATTCA | TTAATTGTGT | TAATAGCATA | TTTTTCAAAT | TTTTTTATTC | 650040 |
| CTTCGGTTGA | GTTGTCTTCA | ATTCTTACTA | TGATAGATAT | TAATGACCAG | TCATCGTTAA | 650100 |
| TGTACATTCT | TTTATTGTCC | TTAGTCCAAT | CGCTTTTATC | TATCAAATTT | ATTAGTTTGT | 650160 |
| TTAGTATAAT | TTTATTTTCA | GGCAGTTTAT | ACTCTAGTGG | GGATTCTTTT | TTAATTTTAA | 650220 |
| AATTTGTAAA | TTTTAAAATG | CCATTAATAG | AACTAGATTG | AGTTTTTGCA | GAAAATGCAT | 650280 |
| CAAGCTTATC | TGTAATTAAG | TCTAATATTT | GCATTGCTTT | AGCATTTTTA | AATTCACCGG | 650340 |
| GCCTGCCTTC | AATTTCTATT | TTGAAAATCG | ATATTCCCCC | CATTTCTTTT | TGCATTAGGT | 650400 |
| TTAATGTTTT | TTTACACTT  | GTGCTTCTT  | TAAAGTAATC | TTTTTCATCA | AAATTGATTT | 650460 |
| CGATTTTTAA | AAGACCTACA | AAAGAAATTC | CCAGTATGAT | GAGGACCATT | ATAGAGGATG | 650520 |

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|-------------|------------|------------|-------------|------------|-------------|--------|
| TATATTTTCT  | TTTTAATATA | GATTTTGTGA | TTTGCGTATT  | TAGTTTGGCA | AGTCTTTCAA  | 650580 |
| GGAAGGATAT  | TTTATTTAGT | TTATTTTCTT | TTTCTTTTTC  | AAAAGACTTT | TTTTTTGCAA  | 650640 |
| ATGGGATTAA  | TGTTATTATT | CCAGGTAAAA | CGGTTAATGA  | GATTATCATT | GAGATAATTA  | 650700 |
| CTCCAATTGA  | CATGAAAATA | CCCATTGTTT | TGTAGGCATT  | AATTGAAGAG | GTTGTAAGAG  | 650760 |
| ATAAAAATCC  | AAATGCAGTT | GTAAAAGATG | TTAGCAGGAT  | GGGTGTTTTA | AGTTTTTTAA  | 650820 |
| TTGTTGCTTT  | TATGGATTCT | TTTGAGAGCT | GTTCTTTTTT  | TATTAATTTA | AATATTTTCAT | 650880 |
| TTATTATATG  | TACAGCATTG | GCGCATCCGA | TTGAAATAAG  | TAAAACAATC | ATTGAAGTTT  | 650940 |
| CTGGCACTGT  | AATAGGGGAT | TGTACAAGCC | CTTTAATTCC  | AAAAGTCCAA | ATCAATGATA  | 651000 |
| ATAATGCAAT  | AAAAATAGGA | ATTAATGCGC | CAATTAGATT  | TTTTATAATA | AGATAGAGTG  | 651060 |
| AAATTATTAC  | TACAAAAGTA | GCAAGAGGCC | CTAAGATTTT  | GAAGTCTTCA | ACCATGTAGT  | 651120 |
| TTAAGATTTT  | TTCTCTTACT | ATTAAATCCC | CCGTAAGATA  | CAACTTTAAA | TCGTCAGTTT  | 651180 |
| CATATTTTTT  | AATTGTTTTT | TCCATCTCAT | CAAGTTCAGT  | TTTTAAATTT | CTACTGAAGT  | 651240 |
| TGATTTGGTC  | ACTCTCTGAT | GGGATTATTA | TGAAGTATAT  | TAAATTTTCT | GAGTTGCCTA  | 651300 |
| AGAATGTGTT  | TTTTACAAAT | GGAGTTGACT | TTATTTTGCT  | TTTTATTTCT | TCTATATCTT  | 651360 |
| TATCAGTGTA  | GATTTCTTTT | TTAAATTGTG | GGAAATAAGA  | AAATATGCTT | GTAACGGCAT  | 651420 |
| TTGGAGATAC  | TTTTAAAATT | TTGGTTATTT | CAC TGATTAC | GCTGTTTATT | GTTTCAAAAT  | 651480 |
| TTTTTTTTATT | GAAGATATTT | TTTTTATCCT | GAAATATTAC  | TATTGTAGAT | AAAAGTGAAT  | 651540 |
| TACTTTTATC  | AATGTCTATT | AAGCTTTCAG | TTTCTTTGGT  | CTTGGGTATA | AGTTTAAAGA  | 651600 |
| TGTTTGCATC  | GAATTTAAGA | TTTTTCAAAA | AAAATCCTAA  | AAAAATAGTA | ATTAAGATAA  | 651660 |
| ATATTGTGAA  | TATAATTCCT | TTATATCTAA | TGCTTAGACC  | TTCAAAGTCC | ATATAACGCC  | 651720 |
| TCTTTTTTAC  | TTATCACTA  | TGTTGACAAG | CTTGTTTTTA  | ATTACAATTA | TTTTTACTAT  | 651780 |
| TTTTTTATTT  | AATAAGTTTG | ATTTTATTTT | GCTATTTTCC  | ATTGCTATTT | CTTTTAGTTC  | 651840 |
| TTTTTTCGCT  | GTCTCTTTGT | TTAGTAAAAT | TTTGTCTTTT  | ATTTTTCAT  | TTATTTGCAA  | 651900 |
| GACAATTTCT  | TTTTTGCCTT | TAATAATAAG | GCTTTCATCG  | AATTTTGGCC | ATTTTGAATT  | 651960 |
| TTTGAATAAA  | CTAGGAAGCT | CTCCAATATA | TTCCCAACAAC | TCTTCTGCTA | AATGGGGTGC  | 652020 |
| ATAGGGAGAT  | AAAATAATGA | TAAACGGTTT | AAATATGTTT  | AAATAATTTT | TTTCATACTT  | 652080 |
| TAGAAGTTCA  | TTTATAAATA | TCATCATGGC | GGAGATTGCT  | GTGTTAAAAT | TTAGTTTTTC  | 652140 |
| TGTGTCTTCT  | GTGACTTTTT | TTATTACTTT | ATGTAGTTCA  | GATATTATTT | CCCTTGGGGG  | 652200 |
| ATTCTCTTTT  | GATAGTTCTT | TTTCTCTTAA | GTTCCAAATT  | TTGTTTAAAA | ATCGAAAAAC  | 652260 |
| ACCAATAATT  | CCTTTAGTGT | TCCAAGGCTT | AGAATCTGTT  | AGTGGCCCCA | TAAACATTTT  | 652320 |

|            |            |             |             |            |            |        |
|------------|------------|-------------|-------------|------------|------------|--------|
| ATAAATTCTC | ATTGAGTCTG | CTCCAAATTC  | CTTAATAATG  | TCGTCTGGGT | TTATTACATT | 652380 |
| TTTTAAAGAT | TTTGACATTT | TGGCAATTAC  | TTGGGTTACT  | TCTTTGTTAT | CTTTTTTATC | 652440 |
| AAAAAATTTA | TTGTCTTTTT | CTATAACTTG  | GTCATTGGGT  | ATTAAAACCC | CGTTTTCTTT | 652500 |
| TTGATAAGAA | AATGATGTTA | TTATGCCTTG  | ATTTATTAGC  | TTTTTAAAAG | GTCCTTTGGT | 652560 |
| ATTTACGTAT | CCTAGATCAT | AAAGAACCTT  | GTGCCAAAAC  | CTTGAGTAAA | GCAGGTGTAA | 652620 |
| TACTGTATGT | TCAGCTCCGC | CTATGTATAG  | ATCAACCGGC  | ATCCAATATT | CAATTTTTTT | 652680 |
| TTTGTTTGCA | AACTCTTTTG | AGTTTTTGGG  | GTCTAAGTAT  | CTTAAATAAT | ACCAACAAGA | 652740 |
| GCCTGCCCAT | TGAGGCATTG | TGTTTGTTTC  | TCTTGTAAG   | CCCATATCTT | TTACGTTTAC | 652800 |
| CCAATCTTTA | ATTCTTGACA | AAGGAGATTC  | ACCTGTTCCA  | GAAGGTTTAT | AGTTTGCAAT | 652860 |
| TTCTGGAAGC | TTTAAGGGAA | GATCATTTTC  | CTCTAAAGGT  | ATTGCATTTT | CAAGTTTATC | 652920 |
| AAACAAAATG | GGTATAGGCT | CTCCCCAGTA  | TCTTTGTCTT  | GAAAAAATCC | AATCTCTAAG | 652980 |
| CTTGTAGGCA | ACTTTTTCTT | TCCCTTTTTT  | GTTTTTAGTA  | AGCCATTTTA | TTACTTTGTC | 653040 |
| TTTTACTTCA | GAATTTTTAA | GATTATTAAA  | TTCATTGGGA  | GAATTTATTG | AAATCCATC  | 653100 |
| ATCAACAAAT | GCTTTTTCTA | ATATTTTCATT | TTTCCCCGAT  | TTTGATATCA | CGGGTAAAAT | 653160 |
| TTTTAATTGA | TACTTTTTTG | CAAATTGAAA  | GTCTCTTTCA  | TCATGTGCTG | GAACACCCAT | 653220 |
| TACAGCTCCG | GTTCCGTAAG | TTCCTAGTAC  | GTAGCTTCCA  | ACCCAAATTG | GAATTTTTTC | 653280 |
| ATTTGTTATT | GGATGAAATG | CGTAAGATCC  | TGTGAAACT   | CCCGATTTAT | CTTTTTCAAG | 653340 |
| AGAAGTCCTA | TTAAGATCGC | TTTTGAGTTC  | TTCGTGCTTT  | ACATATTTTA | AAACATTTTG | 653400 |
| TTTAAAGTTG | TTCTTTGTTA | TTTTTTCTAT  | TAGTTTATTT  | TCTGGTGCGA | TACTAAATA  | 653460 |
| TGTGATGCCA | AAGATTGTGT | CTGGCCTTGT  | TGTAAAGACT  | TTAATTTTAT | CGCTGTGGCC | 653520 |
| TTCAATTTCA | AATTCAATTT | CAACTCCTGT  | TGATTTGCCA  | ATCCAATTTT | GCTGCATTTT | 653580 |
| TTTTACAGAT | TCAGGCCATT | CTAATTCCTT  | AAGGTCGTCT  | AGCAATCTTT | CAGCATACTT | 653640 |
| TGTAATTTTT | AAAACCCACT | GTCTTAAATA  | TTTTTTTTTCG | ACGCTGTAAG | ATCCTCTCTC | 653700 |
| AGATTTTGGT | CCATCTGAAG | TTTGAATAAT  | CTCTTCATTT  | GCTAGTACCG | TTCCAAGCTC | 653760 |
| GGGGCAGTAC | CATACAGGCA | TTTCTTTTAC  | ATAAGCTAGC  | CCTTTTTTAT | ATAATTGCAG | 653820 |
| GAAAATCCAC | TGTGTCCATT | TATAGTAATT  | CTCCTCATGT  | GTTCTAATTT | CTCGATCCCA | 653880 |
| ATCATAGGCA | AACCCCAAAG | CTTTTATTTG  | TTTTTTAAAC  | TTATTAATAT | TTTCTTCTGT | 653940 |
| ACTTTTTTGA | GGGTGAGTTC | CTGTTTGTAT  | TGCGTAATTT  | TCAGCAGGAA | GTCCAAAGCT | 654000 |
| ATCAAATCCT | ATTGGGTGAA | GTACATGAAA  | TCCATTCAAA  | AGCTTGTATC | TTCCAAATAT | 654060 |

|             |            |            |            |            |            |        |
|-------------|------------|------------|------------|------------|------------|--------|
| GTCTGTTGCT  | GTGTATCCTT | CTGGATGACC | AACATGAAGC | CCGTTGGCAG | AAGGATAGGG | 654120 |
| GAACATGTCA  | AGTATATACA | ATCTTTTTTC | CTTGGGAATA | CTTGGATCTT | CTTCTACTTT | 654180 |
| GTATGTTTTG  | TTATTATCCC | AAAATTCTTG | CCATTTTTTT | TCAATTTTTA | TGAATTCGTA | 654240 |
| TTTAGACATT  | TGTCCCTCTG | AAAATTAAC  | CATAACAAC  | TATTCTCTAA | TATTCTTTTA | 654300 |
| GATTGCATTT  | TTGTTAATTT | TATTTAATAA | TTTGCTAACA | ATTTTGATGC | TGTGAAC    | 654360 |
| ACTTGAACCA  | GCACGGGCTT | GCGCCCACTA | GCCCCTCAAG | CTAGCGTGTC | TACCACTTCC | 654420 |
| ACCACCACAG  | CACTATTAAC | CATTATATTT | TTTATTTTAA | ATTTTGTCA  | ACTTTTTTAT | 654480 |
| TTTTTTTAAT  | TACGTAGATT | ATTATTGTTG | TTGCTATTAC | AGCGATAAAT | ATTGCAAATA | 654540 |
| TAATTATTTT  | TATTTTTGAA | AATATTATTT | CAAATGATTG | ACCTAGTTTG | AAGCTTAGAG | 654600 |
| TAAAATAAAC  | AACTATTGAG | AGCAAAGTTG | CAAAGAAGTC | AGAAACAATA | AATAGATTAG | 654660 |
| ATTTTCATATT | TCCCATTCCT | GCTGACATAA | ATATTGCGTT | TCTAACTCCA | AAGGGTATAA | 654720 |
| ACCTTCCTAT  | AAATAAAGTT | AATACCCCAT | ATTGACCATA | ATAGTAATTT | ATTTTGTCAA | 654780 |
| GCAGGTTATT  | GTCTTTTTTG | TTTTTAAATA | ATTTATTTCC | CATTAATTTT | CCAATGTAAA | 654840 |
| AAGATATTAT  | GTCTCCAAGA | TAGGCTCCCC | AAAAAATTCC | TAAAAATATT | AATATAGTAT | 654900 |
| ATTCATTTTT  | TCGACTAGAT | AAAATTCCAC | CCATTAGTAC | TATTGCATCC | TCAGAAATAG | 654960 |
| GAACATTAAG  | TCCTGCTAAA | ATTAGTAACG | AAAAAATAC  | TATTGGGGAA | TAAGCTATGT | 655020 |
| TTGAATCAAT  | ATATTCTATT | ATTGTGTTTA | TATACATTTT | TGTCATCTAT | TTCTTGTTTT | 655080 |
| ATAAGTTAAA  | TATATGCTTG | CTAAAGTTAA | ATATGCAAAG | TAAAGGATAA | GAACCGTTTT | 655140 |
| TGCCATTTTT  | AACGCTGTTG | TGGACAGCTC | TGAAAATATT | GATACAACAA | ATATTAGGCA | 655200 |
| ACTTATTATT  | GTTATTGGTA | TGGTAATTTT | CCTTAATTCT | TTGGTTTTTG | ATGGGTAAAT | 655260 |
| AAATTTTATT  | GGAATAAAGC | TTGTTATAAT | GCATATTGAC | ATTGTAATAA | GATTTGTTAT | 655320 |
| TTGTTCCATT  | TTAAAGATTA | TGTTTAATAT | CACAAAGAGA | TTCCATAGGG | AAGGAAATCC | 655380 |
| CCTAAAGTAG  | TTATCATTTG | TTTTTGCATC | TGTTCTTGAG | AATTGGTATG | CTGATGAGAG | 655440 |
| TAAAATTCCG  | ATGCAAATGG | CGACTTTATA | TTTTTCTTCA | ATAAATTCTC | CTAAATAAAA | 655500 |
| AAATATAACG  | GGTATGAATG | TATAGTTTAT | ATAGTCTGTA | ATATTATCAA | GTAGAGTGCC | 655560 |
| ATCAATTTTCG | GGTATTAATT | CTTTAACCTT | AAGTTTTCTT | GCCATAGTTC | CGTCAATTCC | 655620 |
| ATCTATGATA  | AGCCCTATTA | CTGTTAACTT | TAAAAGAAGA | GAATAATTAC | CGTTTACAAT | 655680 |
| TGAAATTATT  | GAGTAAAGTC | CTACAATCAA | GCCAGATGCT | GTAAAAATAT | GTACAAGCCA | 655740 |
| AGCTAAAATC  | AAATTGATAT | TTTTCACAGT | AAAGCTCCTT | TTATTGGAAT | ATTTTCTTTA | 655800 |
| TCTCTTCAAG  | TCTGCATTTG | AAAATGTTAA | TAGTGTTTTT | TATTGTTGCT | TTTTTTGTTA | 655860 |



|             |             |             |            |             |             |        |
|-------------|-------------|-------------|------------|-------------|-------------|--------|
| AATCTACTCC  | GGTAATATTT  | AAGGAATCTA  | GCGGATATTT | AGAACCACCT  | GTTTTTAAAA  | 655920 |
| ATTTTATATA  | ATTTTCTACT  | GCATCTTTTT  | TATTTTCTTT | AATGCCTTTA  | TATATTGACA  | 655980 |
| GAGCAGCTGC  | AATGCCTGTA  | GCATATTGAT  | ACACATAAAA | GGGTGAATAA  | AAGTGAGGAA  | 656040 |
| TTCTAAGGCA  | TTCAAGGGGA  | CTTAATTCAT  | CAAATTTTAG | ACTAGGTCCA  | AAGTATTTTT  | 656100 |
| TTAACAAATT  | CATATAAGTT  | TCTGTTAGTG  | TTTCTTTTAC | TACAGGTTCT  | TCTTTGCTAA  | 656160 |
| TCATTTTCATG | AATAATGTAC  | TCAAATTCAG  | CAAACATTGT | TTGTCTAAAG  | AATGTTGAAA  | 656220 |
| TCATGTCGTC  | AATTTGTGTT  | AGTTTTATAT  | ATTTTATTTT | GTTAGTATCG  | GTTTCGTTTT  | 656280 |
| TAAGCAAATA  | TTCTGCCAAT  | ATTTGTTTCAT | TGATTATTGA | TGCTATTTCT  | GCTTCAAAAA  | 656340 |
| TGGAATAATT  | ATAGTGTGGG  | AATGGGTTGT  | TTTTTATGCT | AAAGTAAGAG  | TGCATTGAAT  | 656400 |
| GTCCTGCTTC  | ATGTGCAAGC  | GTAAACATGT  | CTCTTATTGA | TTCGTCTTTG  | TAATTAAGAA  | 656460 |
| GTATATAAGG  | CTTTCCGTTG  | TATGATCCAG  | CGCTAAAAGC | CCCTGATCTT  | TTTCCAGTAT  | 656520 |
| TCTCGTATTT  | ATCAACCCAT  | CTTTCTTTTA  | AAAGACCGTT | TCTTAAGATT  | TTTGTATATT  | 656580 |
| CATTTCCTAG  | TACCTCTAAA  | GATTTTAATA  | TTTTCTCACA | AGCGTCTTCA  | AATGAATTTT  | 656640 |
| TAAATATTAT  | TCCTTTTGTT  | AATGGTACGT  | AAACATCGTA | GTGATATAGA  | TATTCTTGGT  | 656700 |
| TTAAGACTTT  | TTTTCTAAAC  | TCATAATAGT  | CATTAAGCAC | AGGTAAATTT  | TCATTGACAG  | 656760 |
| TTTCGATTAA  | ATTTGTATAA  | ACTTTTTTAT  | CAATATTGTT | TGAAAAGAGC  | TGCATTGAAA  | 656820 |
| AAGTATTTTG  | GAACCTCCTT  | GTCTTTGCAA  | TGAAGTGATT | TTTCTTAAAG  | TCTGAAATAA  | 656880 |
| TAAGATTAGC  | AAGCGTATTT  | TCATTATTTT  | TGTATTTTGT | ATAAAATCTT  | AAAAAGGCTT  | 656940 |
| CTTTTCGTAT  | TTTTTGATCT  | TCGTTTTGTA  | AAAATAGTGT | GTAGGTAGAA  | TTGGTTAAAG  | 657000 |
| GGTGTTTATT  | GATCTCTCCA  | AATTCCATAT  | CAGCATTTGT | TAATGCTGAG  | AATATGCTTT  | 657060 |
| GATAAGATGT  | GTAAAGGGGG  | GTGTAGTTAG  | CAAGTATTTT | TTCTTCTTGT  | TCGCTTAAAA  | 657120 |
| TATGTTTTTT  | TTCTCTTAGT  | ATTTTTTCAA  | TTGCAATTTT | TTTATCCTTA  | AGCTCTGGAT  | 657180 |
| CATTTATCCA  | AGCTTGAATT  | TTTTTTTCGT  | CTGTTTTTAG | TATTTTAGGC  | ATAAAGTATG  | 657240 |
| AGGTAGTATT  | AGATACTTTT  | GTAGCTAAAT  | TGACACATAT | GGAATATATT  | TTATTTGAAT  | 657300 |
| CTTTATTGGT  | TACATCTGTT  | TCTAATTGAA  | GCATTGCATA | GTAAGAGACT  | TTCTCTAAAT  | 657360 |
| CTTCCATGAT  | TTCTAGTAT   | TTGTTTAAAG  | TTTCTTTAAA | TAAATCAAAA  | TTTAATTCCA  | 657420 |
| GTTTTTCATA  | TTTTTTTAAAT | TCTTTGGTTT  | TAATTTCAAT | AGCATTGATT  | GTTTTTACAT  | 657480 |
| ATTCTTCTTC  | ATTTGCAAAT  | AGAAAAGATA  | AATCCCATTT | ATCATTTCTCA | TTGATTTTCAT | 657540 |
| TTCTATTTAT  | CACTAAATTC  | TCCTCTTCCT  | TTTTTTATTG | TTTGAAAAGA  | AATAATAAGT  | 657600 |

|             |             |             |             |             |             |        |
|-------------|-------------|-------------|-------------|-------------|-------------|--------|
| TGAAATTTTA  | TAAACATTGT  | GCTTTTTTATT | TTACAATAAA  | GTCTAAACTT  | TATATATAAA  | 657660 |
| AAGCCTTTAA  | GTTTAACTAT  | TGAATAAAGA  | TTT TAGTAAA | AATTTTTTTAA | ATTTTAAAAA  | 657720 |
| TGCTATTCCT  | CTGTGGGATA  | TTTTGTTTTT  | TTCTTCAAGT  | GTTAGATCAC  | TAAGCTTTTT  | 657780 |
| ATTATTTTTTA | GTTAAAAATA  | TTGAATCATA  | CCCAAATCCA  | TAGTTTTTCT  | TGTCATTTAA  | 657840 |
| ACTTAAGGCA  | ATTTTTCCCT  | TAATAATTCC  | TTCAAAATTT  | AATATTGCCC  | CATTTTTTTGA | 657900 |
| TATATAGCTT  | ATGTTGCATA  | TAAAATATGC  | TTTTCTGTTT  | TTTTCATTTT  | TCATTAAGTC  | 657960 |
| CAAAATTAGT  | TGATTTTTTT  | CATTAGTGCT  | TAATTTTTTTA | CATAGCTTAT  | AAGTGTCATA  | 658020 |
| TCTTTTAGAG  | TAAATTCAG   | GTTCCAAGTT  | TAGTGCCTCA  | ATGCACAGCC  | CAGAATCTTC  | 658080 |
| TCCGAAAACA  | TTTTGATTGT  | TATTTAAAAT  | TTCAAACAGT  | GCTTTTGCTT  | TAAGTAAAGA  | 658140 |
| GTTTTCTTTA  | AATGTTTTTC  | CTGTTTCTTT  | TATGTTAAAA  | TTTTGAGGGA  | CTATTAAGTT  | 658200 |
| TAAATTAGGT  | ATATCTAATA  | TATTTTTTAC  | TTCATTTATT  | TTATTTTCAT  | TTGTTGTTGC  | 658260 |
| AAAAATAGT   | GTTTTTCATCT | ATATAATAAT  | AAAGTATTTA  | TGAGTTTAAT  | TGTATAATTA  | 658320 |
| TATTGGTTTT  | AAGTATTATT  | CTCTTTAATT  | TTGTGTACTT  | ATTAAGTATT  | TTTGTACCAG  | 658380 |
| GTTTTTATCG  | AAAAAATTTG  | GATTTTTTGTC | TAAGGTGTTA  | AAATAAATTT  | TTAATTTTCT  | 658440 |
| TGTTTGATCA  | TGGTAATTTT  | TAGTAAGGTT  | TGTTATGAAG  | AAAAGAATTA  | GATTTAAGAT  | 658500 |
| TATTTTGGGT  | TTTAAAGGAA  | TTTTAAAGTT  | TTTTTTAGTT  | ATTTATAATT  | CTTTGTTTAT  | 658560 |
| AGCCCTTAAA  | GCCATACATT  | CTTTTTTTTAA | GCAAAATATT  | AGTTTTATTG  | TTATTCCCCA  | 658620 |
| TGTTAAAGGG  | AATGTCAAAA  | ATATTAAAAAT | TTCTTTTTTTG | ACTTTATTTT  | TCTTTTCTAC  | 658680 |
| TTTTTTTTTTA | GGCGGTTTTA  | TAGGGTTTGT  | TTTACTTGCT  | GTTAATTACG  | TTACTCTCTC  | 658740 |
| ATCAATTGTG  | AAGTCTACAG  | AGAAAAATTA  | CTCTTTAGCA  | GAATCTGAGA  | TTGAAGATTT  | 658800 |
| TAGAAATACA  | GTTGTAGAAA  | TTAATTCTGT  | TGCAAAAAAT  | TTTTCTAAAG  | TTTTAGATGA  | 658860 |
| ACTTAAACC   | TCTTTAAAAA  | TCAATCTTAA  | TGGTGTGAT   | TTAAATAAAA  | ATAAACTAGA  | 658920 |
| TGGAGATCTT  | TCTGATTTTA  | TTGATTGCA   | AATTTTAGAA  | GCTAATTCAA  | TAAAAGAGCT  | 658980 |
| TAGTGATCTT  | AAAAATATTA  | AAAGCAAAAT  | AGAAAGTTCA  | ATTCCTCCTC  | TTAAAAGCAT  | 659040 |
| AGTTAAAGTC  | TTGCACGCCC  | AAGACAAGCT  | TTTAAATGAT  | ATTCCTTCTC  | TTTGGCCTCT  | 659100 |
| TGCGGGTGGA  | TCTGGAATTA  | TTACTTTGCA  | TTTTGGTCCT  | GCTATTGAGC  | CTTTTACTAG  | 659160 |
| GCAATGGTAT  | ATTCACAAAG  | GCATAGATCT  | TGGGGGAGTC  | AGAATTGGAA  | CTCCTATTGT  | 659220 |
| TGCAACTGCT  | GATGGGGAAG  | TTGTTAGGGC  | AAGTTATCAG  | TCAGCAGGCT  | ATGGTAATTT  | 659280 |
| TGTTCAAATT  | AAGCATAAGT  | ATGGACTTGC  | AACTCTTTAT  | GCGCATATGT  | CGCGGCTTAA  | 659340 |
| TACTTCTAAA  | GGGTCTTATG  | TTAAAAAGGG  | GCAGATAATT  | GGATTTATGG  | GGCAGACAGG  | 659400 |

|            |             |            |            |            |            |        |
|------------|-------------|------------|------------|------------|------------|--------|
| TTATGCAACA | GGTCCACACG  | TTCATTATGA | GGTTCGTGTA | GGTTCTCAAG | TTATTAATCC | 659460 |
| CGATATGTAT | TTAAATTTAG  | CAACAGGAGC | TTCAAATAG  | ATGTTAAATT | TTTTGACTGT | 659520 |
| AAAAAAGAA  | AGAAAAGCCC  | CGTCTTTGTT | TATTTTTGAT | GAAATAAAAA | CAATAGTGGG | 659580 |
| CGTTGGTGAT | TTTTTTAAAG  | GAGACTTAGT | TTCAAATAAT | TTTATTCGGC | TTGATGGTGA | 659640 |
| TTTTATAGGC | ACCATTAGCT  | CTACTAAAG  | AGTAATTATT | GGGGAGAGTG | GTAGAGTTAA | 659700 |
| ATCTAGCATT | GATGCTAATG  | AACTTGTTAT | TTCTGGAATG | GTTGTGGGTA | ATATTTATGC | 659760 |
| TAAAGCAAG  | ATTAAAATAT  | TTGCATCAGG | GTGTGTTATT | GGAAATATTT | CTTGTAAGTC | 659820 |
| AATTGAAGTT | GAAGAGGGCG  | CTATTATTGA | TGGGTATATG | GATATTGGCG | CTGAGTATCT | 659880 |
| TAGAGCTCCT | GAAAGAAATA  | CATTTTTTTA | TACTGGTTCT | TACAAGGTTA | ATGAAGATCT | 659940 |
| TTTAATTGAA | ATCAATAAGG  | TGCATCAAGA | AGAAAAAAG  | TCTTTTCAAC | TTTLAGAAGG | 660000 |
| TAAAGATGAT | AAATATTTTT  | CAAGTGTTGT | GAACAAAATA | GATGAAAGTA | AATAATTTAA | 660060 |
| TTGCTGGGGC | ATTAAATCTT  | AATTCAAAAG | ATTATAAAAA | AAGTGGCAAA | AAGGTGTCCT | 660120 |
| TTGATAAGAA | CAATCTTTTT  | TCTTCGATAT | TTCAGGCTGA | AAGTGCAAA  | GAGGATAAGC | 660180 |
| ATTTTATTTT | ACTTGAAAAT  | GGAGAATTTA | ATCTTGATTT | AATTAAAAGT | ATGTTAGATG | 660240 |
| GAATTAATGA | GACTGGTGAG  | AGACTTTTGA | GTGAGCCTTC | CAGACAAAAT | GTTATTTTTT | 660300 |
| ACAAAAAAGT | TATTTTCAGAG | TTTATATCCA | TTATTATATC | ATCTTCTGTT | TGTTTGAAAG | 660360 |
| AGCAAAAAGG | GGGAAATTTA  | GGAGATCCCA | AGCGCCCCAA | GTATAGAATT | ATTAAGATTA | 660420 |
| TTAACGACAA | GTTAGACAAA  | CTTGCTTATT | CTGTTTTACA | AAATCAAATG | ACTCAGATTA | 660480 |
| AACTTTTGGA | TAGCATTGAA  | GAGATTCAAG | GCTTGCTTGT | GAATTGCTA  | ATGTGAATTG | 660540 |
| GGTGTAAGAC | TTTTTAATGT  | TTTAGGTTTT | AAAATTAAAA | GGGATTGCTT | AACAATCCCT | 660600 |
| TTGTTTAATA | TAAAAATTAA  | TTTTAAATTA | AATATTTTTT | ACTTATTTCT | AAAAAGTTTT | 660660 |
| TTATTTGTTC | ATTTTCCAC   | TCTTCAGATT | TATTTAATTT | TTCCATCATT | ATTTAGCAA  | 660720 |
| CTCTTGAGC  | AGCCTCAATT  | GTAGCTTGAG | GATTTAAAGG | TAGTGATCTT | GTTCTTCTT  | 660780 |
| GCTAAACAT  | CCTCAATAGT  | TTTGGCTTGT | TCAAATTTAA | TTGAAAAATC | TATTTGAGCT | 660840 |
| TCATTTAAAT | CCAAGTTTTT  | GTGTATTTTT | TTGTCAAAC  | CCTCCATATT | TTTTAGAATT | 660900 |
| TCAAAGTCGC | TGCCATAAGC  | TCTAAAAGGT | TCAGGAATTT | TCATTGCTTC | TTCTTTTTTA | 660960 |
| AGGTAGCCGT | GCAACTTTAA  | ATCTTCTGTA | GTTGGTGCAC | GATTTGGTAT | TAAATTTTGT | 661020 |
| TCTATGCCT  | TAAGCAAGGT  | TTTTTCTGCC | ATTTTCTAT  | ATGTGGTATA | TTCCCCCCC  | 661080 |
| GCTATTGTAA | TAAGATTTGA  | ATCTGATATA | AATATTTTTT | CGTTTCTTGA | GATTTTGTAA | 661140 |

|            |             |             |            |             |            |        |
|------------|-------------|-------------|------------|-------------|------------|--------|
| GTGTTTCCTT | GAGCTTTTGG  | ATCCATTATT  | AATGGCCTTA | TTCCGGTATA  | TACACTTTTT | 661200 |
| ACATCTGATT | TTTCTATTTT  | AATATTTAAA  | TAGTTATTTA | AATTATTTAT  | TATAAAGTCA | 661260 |
| ATCTCTTCTT | CAAATCTTTT  | GGGTTCTTCT  | TCTATCTCTT | TTATTGGAAT  | GTCAGTGCTT | 661320 |
| CCACAAACAA | CACATATCATA | CCAAGGAATA  | GCGAATAAAA | TCCTATTATC  | ACTAGTTTTA | 661380 |
| GGTATTAATA | TTGCATGATT  | TTTGGGAAAT  | TTGTCTTTTT | TGACTACTAA  | ATGGCTACCT | 661440 |
| TGGGAAGGTT | TAATGATGTT  | TAAGGCTTTT  | TCATCATCCA | ACCTTCTTAT  | TTCATCTGAA | 661500 |
| AATATTCCTG | TTGCGTTTAT  | TATGCATTTG  | CTTTTTAATG | AAATTTGTTT  | TTTTGACAAT | 661560 |
| TTATTTTGTA | TAAGAACTCC  | CGAAAGCTTT  | CCGTTTTCTT | TGTTGAATTT  | TTTAAGTTCT | 661620 |
| GTATAGTTAA | GGGCAATGCC  | TCCTTTTTTCG | GTAAAGGTTC | TTAACAATGT  | TATTGCCATT | 661680 |
| CTAGCATCAT | CGAATGAATC  | ATCGTAATAT  | AGAACAGAGC | ATTTAAGGCC  | CTCTGTTTTA | 661740 |
| ATATTGGGAG | CTTTTTCAAT  | GGTAGATTTT  | TTGGATAGTA | ATTTAGTTTT  | GTATTTAGTA | 661800 |
| GTTTTTCTT  | TACCCATAAG  | ATTGTGGTAG  | TAACCTAATC | CAAAAATAATA | ATAAGGTATT | 661860 |
| TCTAAACAT  | TATAAATAGG  | CGTGATAAGT  | GCACATTTCG | TAATTAAATG  | GGGTGCATTT | 661920 |
| TTCTCAAGAA | TGGCTTTTTT  | GCGCAAAGCT  | TCTTTAACTA | AAGAAATATT  | CCATTGGGCT | 661980 |
| AAATATCTTA | CTCCACCGTG  | AATTAATTTG  | CTTGATCTAG | AGGAAGTTCC  | TTTTGCATAA | 662040 |
| TCAAATTTTT | CTATAAGTAT  | TGCTTTATAC  | CCCCTTGTA  | TTGCGTCTAC  | CGCAATGCCA | 662100 |
| AGACCTGTTG | CGCCCCCTCC  | AATTATTATA  | AGATCAAATT | CTTGATTTTC  | AAGATCTTTT | 662160 |
| AATTTTGTTT | CTTTGTTATT  | ATTCATGAAA  | TTTAAATATT | CCTCCATTTT  | GGTTAATTTT | 662220 |
| TTTTCTTTTT | AGTTAAATAC  | TAGATTGAAG  | AAATTCGAAA | AGACCATTTG  | TTTTAATTTT | 662280 |
| ATTGAATAGC | ACTATAGACC  | AATTGCACTG  | GTAAATTTTT | CAATTTTTTT  | TGATTTTTCT | 662340 |
| TTAGATTTAA | TATATTATTA  | ATCATTTTTT  | GTATTGCTCC | AATGAATTTT  | ACCTTTTCAA | 662400 |
| AAGGTTTAGA | CAGTTTATTT  | TTTGAATACA  | TGCACAATAT | TAATAGATGT  | AGATGAAAAA | 662460 |
| ATTTAATTAA | GAGCTGTTTG  | TATAATTGAT  | TTATTTGCTT | GCCAAACATT  | TTTATTATAT | 662520 |
| GTTGTTTTAG | TTTCAAAAAA  | TCAAATAAAT  | TATGCATAAT | TTTGTTACCA  | GTATATTTTT | 662580 |
| GTTATAATCT | TAAAGCTTTG  | TTTTGAACTT  | TTATGAACTA | TGAGAATTCT  | GTATCCAGGA | 662640 |
| TTTTGCTTTT | CCAACCGCTT  | TGTTCCAATT  | CTCAAGAAGC | TTTCTTTTTT  | GATTTTTTTG | 662700 |
| CATTGAAGGT | TCAAATATCT  | TGTCTACTTG  | CCAAAGGCTT | ACGATTTCTT  | CGGCGCTTTG | 662760 |
| CCAATAACCC | GTTGCAAGTC  | CTGCAAGATA  | AGCAGCGCCA | AGAGCGGTTG  | TTTCTGTTAT | 662820 |
| TTTTGGTCTT | ACAACCTTAC  | ATTCTAAAAG  | ATCAGCTTGA | AATTGCATTA  | ATAGATTGTT | 662880 |
| TTGACTTGCT | CCCCCGTCTA  | CTCTTAATTC  | TTGAATTTCA | AAGTTGGGAA  | TGGATTTTTT | 662940 |

|            |            |            |            |            |             |        |
|------------|------------|------------|------------|------------|-------------|--------|
| CATGGTATTT | AGTATATCGA | AGCTTTGAAA | TGCGATGCTC | TCAAGAGCAG | CTCTTGTAAT  | 663000 |
| GTGAGCTTTT | GTTGAGCCTC | TTGTTATTCC | GATGATTGTT | CCTCTTGCAT | AAGAATCCCA  | 663060 |
| GTGAGGTGCA | CCAAGCCCCA | CAAATGCTGG | CACAAAATAA | ACTCCACCAT | TATCTGAGAC  | 663120 |
| AGAGCTTGCC | AACGCTTCTG | CATCTGAGCT | TTTTCTGAAA | AATTCAAGAC | CGTCTCTTAA  | 663180 |
| CCACTGGATT | ACAGCTCCTC | CAATAAAAAC | ACTTCCTTCA | AGAACGTAGG | TTACAGATTT  | 663240 |
| TTTTCTTCCC | CATGCAATTG | AAGTTAAAAG | CTTGTCGTGG | CTAATGATTG | GTTCTTTTCC  | 663300 |
| TATATTAACC | GTTAAGAAGC | AGCCAGTTCC | ATAAGTGTTT | TTGGCCATAC | CCTTTTTTAAG | 663360 |
| GCAGGCTTGT | CCAAATGTTG | CTGCAAATTG | ATCCCCAGCA | ATTCTTGCAA | TAGGAATTTT  | 663420 |
| TGCTCCAAAT | AGTGCTTTGT | CTGTTTTGCC | GTATATTGTA | GAACCTTCTT | TAAGTTCAGG  | 663480 |
| CAAAATTGCC | CTTGGAACAT | TTAATATGCT | TAAAAGTTCA | TCATCCCACT | CTAATGTTTT  | 663540 |
| AATGTTTAAT | AATAATGTTT | TTGAAGCATT | AGAGTAATCG | GTTGCATGTT | CTTTTTTTTG  | 663600 |
| AGTCAGGTTT | CACAATATCC | ATGTATCTAT | TGTTCCAAAG | CATAATTTCG | CATTTTTCGGC | 663660 |
| TCTTTGTCTG | GCACCTTCTA | CATTATCCAA | TATCCACATT | ATTTTTGTTC | CACTAAAATA  | 663720 |
| AGAATCTAGC | ACCAAGCCTG | TTTTTTCCAA | AATAATTTTA | TCTTTTCCTT | CTTTTTTTAA  | 663780 |
| TTGGTCACAA | ATTTTTGCAG | TTCTTCTGTC | TTGCCATACT | ATTGCATTGT | AGATGGGCTT  | 663840 |
| TCCTGTATTT | TTTTCCCAT  | TAACCGTAGT | TTCTCTTTGA | TTAGTTATTC | CAATAGCGTC  | 663900 |
| AATTTTCATT | GGCAAAATTC | TTGCATTTGC | CATAGCTTCT | GTTATAACTC | CAAGTTGTGA  | 663960 |
| GCCCCATATT | TCTGTAGGAT | CATGTTCCAC | CCAAGTTGGT | TGTGGATAAA | TTTGAGTAAA  | 664020 |
| TTCTTTTTGA | GCAAACCCCT | TTATGTTTGC | ATTTTTATCA | AATACCATTG | CTCTCGAGCT  | 664080 |
| AGTAGTACCT | TGATCAATAG | ATAAAATGTA | TTTCATAGTT | TTTCCTTTTT | CCTTTAATAA  | 664140 |
| AGATAAATAT | TTTTCTTTT  | AGTCTTTGTT | ATTTTTTAGT | GTAAATTCGT | AAATTGTAGC  | 664200 |
| TCCCCAAATT | GCTCCAATTA | TTGGGGCAAT | TATTGGTACA | ATAACTATAC | TTAGATTGTT  | 664260 |
| AAATCCGTGA | TTTTTAAATC | CAGCAAATAA | GAGTAAATTT | CTTGGTCCCA | GATCCCTTGC  | 664320 |
| AGGATTAATA | GCATAACCGT | TCATTCCCTC | GAAACTTATC | CCTATTGATA | AAACCACTGC  | 664380 |
| TCCTACAATA | AAAGGAATAA | ATGGATTGTC | GCTGTGTTTT | TTTGTAATAA | CTCCAACAAC  | 664440 |
| AGAAATTAAA | AACATTAGCA | AAAAAGTTCC | AAAAATTTGA | TCAATAAATC | CAGGCAAAAA  | 664500 |
| TCCAGGAACA | GCAGGGAAAG | TTGCCATTAT | TCCTTGAGTA | TTTTCTAAGC | CAGGATCCAT  | 664560 |
| TTCTATCCAT | TTAGGATAAA | ATACGACAAG | TGTCATTAAT | GCACCTGTAA | AAGCTCCTAA  | 664620 |
| TATTTGTGCT | ACAATGTAAT | GTAAAAGTTT | TGAAACGGGA | AACTTTCCAA | CACTTGCTAA  | 664680 |

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|------------|------------|------------|------------|-------------|------------|--------|
| TCCTATGCTA | ACAGCTGGGT | TTAGGTGTGC | TCCGCTCATT | CTTGCTGCTG  | TGTAAATACC | 664740 |
| AAACGTTACA | CCCAATCCCC | ATCCAAATAC | TATATTTGTA | TATCCTCCTT  | TTATTATTTT | 664800 |
| TCCTGGTATT | TCGGGACTTG | AGGAAAATAA | TACTGTCAAT | GCAACAGATC  | CAGTTCCTAG | 664860 |
| AGCCAATAGG | ATAAATGTTC | CCAAAAATTC | CGATATAAAT | TCTTGGAATT  | TTGTATAATT | 664920 |
| CATAATTATA | TCTCCTTATC | TTTATAACTA | TTTTATTTTT | TATTAAGAAG  | TTTTAATTTT | 664980 |
| TGATTTTTTA | ATCTGAATAA | TATTAAATCT | TTTAATTAAA | TTTTATTTTG  | TTTTTTGCAA | 665040 |
| GATGGTTAGA | ATTTTTTTAT | TTTAGTCTCT | TTTATTAAAA | AAAATTAATT  | TTTCTAATAA | 665100 |
| AAGCCTTATT | AAAATTATAT | TTAATATCTT | ATTTTAAATT | AAGATTAATG  | TCAATAATTT | 665160 |
| AAGAATTTTA | ATTTTAAAT  | TATGAATTC  | TTTTCTAAAA | TTTGTTAAG   | GATTTTTTGT | 665220 |
| TTTATATTAA | AATTTTTACA | TTGGATTTTT | TCATTAATGA | AGTTTGTTC   | GTTAGTAGTT | 665280 |
| CTTTTTTTTA | GCTTATATTT | GAATTTATTT | AAGTTATTTT | GGAGGTAGAC  | TTGGTGATTG | 665340 |
| TAATAGAAGG | TTTAATTGGG | GTAGGAAAAA | CTACTCTTGG | AAATATTTTA  | TCAAAGGAGT | 665400 |
| TGGAAGTTCC | TTTTTACAGT | GAATTGAATA | ATGATTTTAC | TTAGCTGTA   | TTAGACAAAT | 665460 |
| TTTATAAAGA | TAAATCCAGA | TGGGCATTTT | CAGTCCAAAT | TAATTTTCTT  | AATGAGAGAT | 665520 |
| TTAAATTAAT | AAAAGGTGTA | TTTAGAACAA | AAGGGGGCAT | ATTAGACAGA  | TCTATTTATG | 665580 |
| GTGATTGTGT | GTTTGCGTCT | CTTTTAAATT | GTGATGGGCA | TATTTCTGAT  | GAGGAATATA | 665640 |
| AAATATATAT | CGATCTTCTT | GATAATATGC | TTGAACATTC | TCAGCGACCA  | AGTTTGCTTG | 665700 |
| TTTATCTTGA | TTGTAGTATT | GATGAAGTTG | AGCGCAGAAT | TAAAAATAGA  | AATAGAAGCT | 665760 |
| TTGAAATGAA | TATCCCCAGA | GATTATCTTG | AGGGTCTTAA | TAGGAAATAT  | TTAAAGTGGT | 665820 |
| ATGATGAATA | CAACTTGTCG | TCAAAAAATA | AATTTTCTTA | CGATAATATA  | AATATTTTTA | 665880 |
| GTGAAGAAGA | TAGGAATAAA | GTGATTTCTT | TAATTAGAGA | TAAACTTGTA  | TTATAATTAT | 665940 |
| TTATAGTAGA | TTGACATTCT | TTTGTTTTAT | TTTAAGGTTG | AGTGTTAATG  | GAGGTCTTAA | 666000 |
| TGAGAAGATT | ATTTCTTCTA | TATATTTTAT | GTTCTTTTGT | TTTTTTGAAT  | TTATTTGCTC | 666060 |
| AAGGTAGTTC | TTCTTATATT | GATAAGCAAA | AAGAGCTTGC | TATTTTTTAT  | TATGAGGTTG | 666120 |
| GTCAAAGATA | TATAAACGTT | GGTAAAATTA | AAAAAGGAAA | GCTTTTTTCAA | GCAAAAGCTT | 666180 |
| TAAAGATTTA | TCCAGATTTG | AAAAAGGGGT | TTGATATCAA | GCTTGCAGTT  | AAAGAGCTTG | 666240 |
| ATGCTAGGAT | TAAAGATGAC | AATCCCAAGG | TTGTTATGCT | TGAGGATATT  | AAGCTTGAGG | 666300 |
| AGATACCTGG | AATAGTGCAC | GAAAAAATAG | AAATCAATGA | TTTTACAAAT  | GCTCCTAAAA | 666360 |
| TAGAATATAT | TGCTCAAAGA | GAGAGAAGCA | AAAATCAAGA | TAAAATTATT  | AAGTTTCAAT | 666420 |
| TTGGAAAGTT | TGCAAGAGCT | TTAATTTCTA | GGAACCTTGA | TTTGTTTGAT  | TCAGTTATTG | 666480 |

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|------------|-------------|-------------|------------|------------|------------|--------|
| CGGATAAAGT | TAACGTTATG  | GGTCAATTTG  | AATCAAAAAA | TGATTTTATA | TCAACTTTAT | 666540 |
| CAAGTGCTTC | ATCTAAGGCC  | GATGCTGATG  | AGTTAGAGTA | TTTATCAGTT | GATGATTATT | 666600 |
| ACGATTTAAA | GTCTTTAAAA  | ATTTCAAAAT  | CCAACGATAC | TTCTTTTGCT | GTTAATGTTA | 666660 |
| ATGCCAAAAA | AAATGATGTT  | ACTAAAAATT  | TTCCATTTTG | GAAAGAACGT | CAAACTTTAA | 666720 |
| TTTTTACTAC | AGAGGATGAT  | AATAATTGGT  | TTTTGTCTTC | CATAAATTGA | AATCTTAGTG | 666780 |
| TTGTGATTAA | AAACATCATC  | ACTAATATAT  | GTATAAACGA | GTCTCCAATT | TTTTCATAAA | 666840 |
| TGGTTGTAAA | CGTTGGGGAC  | AGTTTTACGG  | TTGATAATAG | GTATCCTTTT | TTAAAAGTTT | 666900 |
| CCAATTTTTT | AATGGTTTCT  | CCATATTCGT  | TGATGGTTGC | AGTAATTCCT | GAGTTTGTAG | 666960 |
| CTCTAATAGT | TTTGATTCCA  | TTTTCAATGC  | TTCTAAATTT | AGCCACAACA | AAGTGTGACC | 667020 |
| ATTCTGCTGA | ATTTGTTTTT  | GACCAAGAAT  | CGTTTGAAAA | ATTTACTAAT | ATATTAGCGC | 667080 |
| CTTGGGTTTT | GTAAAACCTT  | GAAAGCTCTG  | GAAATGCATC | ATCATAGCAT | ATTAAAGGAG | 667140 |
| CAAATTTAAA | CTTTTTCAAT  | TTAATATTTT  | CGATTTTATT | TCCTTCAATC | TGTCCTAAAA | 667200 |
| TTCTAAAGTT | TTTTAAAAAA  | AAGTTTCTTA  | CAAATTTATA | TTCGTAAAAA | GGAATTTTTT | 667260 |
| CTGCAAAAGG | GACTAAGAAT  | ATTTTGGAAT  | ATATGTTTGT | AATGTTGAGG | TTTGTTCTA  | 667320 |
| CCATATAAAT | AGAATTTTGT  | TGAATCCCTA  | TGGCTTTGTC | CAAATTTGAG | GGAGCCCCAA | 667380 |
| TGGCAAATGG | GATTTTGTGT  | TCTTTTATAA  | AATTTTAAAG | CTCATTGTGC | AAATCAGAGC | 667440 |
| TTTTAAAGTG | CTGATCTTCT  | TTGCTAAAAG  | GGTAAGTTAG | CACCCCTTCG | CTCCAGATTA | 667500 |
| CAAATTCAT  | TTTTGGATTT  | TCTTTTAAGG  | CTTGCTCTGT | AATTTCAATA | GAGTCTCTTA | 667560 |
| TTCTTTTTTT | GTCATTTTCT  | GGCAACCATG  | GATCAGTGTT | AAGCTGAATA | GCTGCAATGT | 667620 |
| TTAGACTGTC | TATTTCTTTT  | GCTAATAAGT  | TTTTTAGCTC | AATTTTTTTG | ATCATTCCGT | 667680 |
| AAGTAAAAGA | TGCTGTTATT  | AGCAATGTTG  | GAAATGCTAT | GTTTAGCAAA | TTTGTTTTGT | 667740 |
| TTTTGTGGAT | TAGAAAGTCT  | GCAATTCCCG  | AGTTTAAAAA | GTAGACTGCA | AATGATACAA | 667800 |
| AAAATACACC | AAAAATGTCT  | GCTATTTGAA  | TTAAATTGTT | GAAGTTATTT | ACGGTGAAAG | 667860 |
| CTGCAAGCCC | CCAAGGATAT  | GCTAAAAATC  | CAATTGATCT | TGAGTAATCA | TAAAATGTAA | 667920 |
| AAAGCATTGT | TATGCTCATC  | GTTTTATTTT  | TAAAGCTTTT | TAAAGAGTAA | TAAAGGAAAT | 667980 |
| AGCCTAAAGT | TAGTGAATAT  | GGAATGTACC  | CTATTATCAC | TCCAATGAAT | GTAATCCATC | 668040 |
| CAAATGCATG | AAAAAACCCA  | AGCCAAAAAT  | TTTGCAGGCT | GTTGGCTATT | ATAAAGTAAA | 668100 |
| ATACCGTCAG | TCCCATTAAAT | GCTTTTTTTAT | CTTCTAGTTT | GTTTAAGGCT | ATAAAAAGTG | 668160 |
| GTACATAAGC | AACAAATCCA  | AGGATTGAAT  | ATCCGGTTTC | TTTAATTTCA | TTTGGAATTG | 668220 |

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|------------|------------|------------|------------|------------|-------------|--------|
| CAAGTGTGT  | AAGAATTCCT | GAAAATGCGG | CTAAGCAAAA | GCATCTAGTT | TTCATTTTTTC | 668280 |
| CTCTTTTTTA | CTATTATTAG | TAACATAATG | GTGTAATATA | TTTAACATTA | TCATTAATAA  | 668340 |
| TTTTATATGA | TAGTATTAAT | TTTTTTGTAT | TATTTTTTGG | AAAAGTTATG | CTTATAATAG  | 668400 |
| GTATTTAAAG | AGTAAAGGGG | ATTATGTTAA | TTTTTGTTTT | TATTGGTTTG | TTTTTTTTTAA | 668460 |
| ATATTTTTAG | TTTGCATGCC | CAAGGAATAG | TTACTAATAA | AGATGCTCAA | GAAGAGTTTA  | 668520 |
| AATGGGCTCT | TAATTCTTAT | AATAATGGAA | TTTACGATGA | TGCTCTTTTA | TCTTTTAAAA  | 668580 |
| AAATTTTAAG | CTTTGATCCT | AATAATCTTG | ATTATCATTT | TTGGACTGGC | AATGTTTATT  | 668640 |
| ATAGACTGGG | TTATGTTGAA | GAAGCTTTAA | TGGAATGGAG | AAATTTAAAA | GATCAAGGCT  | 668700 |
| ATAAGGTTCC | CTATCTTAGA | CATTTGATTT | CTACTATTGA | GCAAAGGAGA | GGTATTTTTt  | 668760 |
| CAAATTATGA | ACTTAATTTT | AAAAAACTTG | TAAAAGTTGC | TTCTCTTGAT | AATTCTATTT  | 668820 |
| ATAAAAGGCC | ACATGGGTAC | CAGATTACAT | CTTTAAGGGC | TGATAAGTAC | GGCGGATATT  | 668880 |
| ACGCTGCTAA | CTTTGTAGGC | AATGAAATAT | TGTATTTTGA | TGTTAATAAC | AATGTTAATG  | 668940 |
| CTTTAGTTAA | AGATGGCTTT | AGTTATTTAA | AATCACCTTA | TGATGTTATT | GAAGCTAATA  | 669000 |
| ATCTGCTTTA | TGTGACTCTT | TATTCAAGTG | ATGAAATTGG | TGTTTATGAC | AAAGTTCTTG  | 669060 |
| GAGTTAAAAG | GAAATCTATT | GGGAATAAAG | GCACAAAAGA | TGGCGAATTG | CTTGCTCCTC  | 669120 |
| AGTATATGGC | TATTGATAAG | AGAACTATA  | TTTATGTAAG | TGAGTGGGGA | AATAAAAGAG  | 669180 |
| TAAGTAAATT | TGGACTTGAA | GGTGATTTTA | TTTTGCATTT | TGGTTCTAGA | ACTTCAGGCT  | 669240 |
| ATAAGGGCCT | TTTAGGTCCC | ACAGGCGTTA | CTTATTTGAA | TGAAAACATT | TATGTTGCAG  | 669300 |
| ATTCTCTGAG | AAATACCATT | GAAGTTTTTG | ATACTAGTGG | TAATCATTTA | TATTCAGTTT  | 669360 |
| TTACTTCTAT | TGAGGGAATA | GAGGGGCTTA | GCAGTGATTT | TGTAGGTAAT | AATGTTATAG  | 669420 |
| TATCCTCAAA | AGATGGTGTT | TATAAATATA | GCATTGCTAA | AAAGACAATT | ACAAAAATTT  | 669480 |
| TAAAAGCAGA | TAAAATGAAT | TCTAAAATTT | CTTCATCTAT | TTTGGATGCC | AATAATCAGA  | 669540 |
| TGATTGTCTC | AGATTTTAAT | AATGCCAAGG | TTTCAGTTTA | CAAGAGTGAT | GCAAGCCTTT  | 669600 |
| ATGATAGTTT | AAATGTTGAT | GTTAGAAGAA | TAATTAGGCT | TGGAGGGCCT | AAAATTTACG  | 669660 |
| TTGAGCTTAA | TGTTAGCAGT | AAAAGCGGAT | TACCAGTTGT | TGGGCTTAAA | AGTGAAAATT  | 669720 |
| TTTCAATTTT | AAATGAAAAT | TATTACATTG | TCAATCCCAA | GGTGGCATAT | AATGTAAATG  | 669780 |
| CTTCAAAAGA | CATTAATATA | GCAGTTGTTT | TTGATAAATC | TTCTTATATG | AAAAAATATG  | 669840 |
| ATACAGATCA | AATTGTAGGG | TTAAATGCCC | TAATGGAGTT | GTCAAAAAAT | AAAAACTTTA  | 669900 |
| GTTTTATAAA | TGCAACAAGT | GTGCCCATT  | TAGATAATAT | TGAAAGCTTA | ACAAATAGCA  | 669960 |
| TTAGAAATAC | AAGTTCTCTT | GGTCCTTATA | GTACAGATGC | TGTAAAAACA | GACGTTAGTT  | 670020 |



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| TGAAGTTGGC | AGGTTCTGGG | CTTATGTCAA  | AAAGCTCAAG | AAGAGCAGTA | GTTTATTTTA | 670080 |
| GTGGTGGTAT | TTTAAATCGT | AAAGCTTTTG  | AAAAGTACTC | TTTAGATACA | ATAGTAAGCT | 670140 |
| ATTATAAAAA | TAATGATATA | AGGTTTTACT  | TAATACTATT | TGGTAATGAT | CCTATTAATA | 670200 |
| GTAAGCTTCA | GTATTTAGTT | AATGAAACAG  | GCGGTGCTGT | AATTCCTTTT | TCATCTTATG | 670260 |
| AAGGTGTATC | TAAAGTTTAT | GATTTAATTT  | TAGAACAAA  | AACGGGCACT | TATTTGTTGG | 670320 |
| AATATTATTA | TCCAGGCCCT | CAAGAACCTA  | ATAAATATTT | TAATTTATCT | GTTGAAGCAA | 670380 |
| ATATAAATCA | ACAGACAGGA | AGAGGGGAGT  | TTGCATATTT | TATTAATTAG | ATTTCTTTTT | 670440 |
| GATTTTATTA | GAGGTTTAGG | CTATGAGACT  | TAATGCGGGG | ATTGTGGGAC | TTCCCAATGT | 670500 |
| GGGTAAATCT | ACTTTATTTT | CATCTTTGAC  | ATCATCTAAT | GTTGAGATCG | CGAATTATCC | 670560 |
| TTTTTGTACC | ATTGAGCCAA | ATATAGGAAT  | AGTAGAGATT | CCCGATGAAA | GGCTTTTAAA | 670620 |
| AATCTCAGAG | TGCATTATTC | CACGCAAAAT  | TATTCCTGCT | GTTATGGAAT | TTGTGGATAT | 670680 |
| TGCAGGTCTT | GTCAAAGGAG | CATCAACAGG  | CGAAGGGCTT | GGCAATAAAT | TTTTGGCTAA | 670740 |
| TATTCGCGAA | GTTTCTCTTA | TTGTTTCATGT | TGTAAGATGT | TTTGAAGAAA | AAGAGGTTAT | 670800 |
| TCATATTAAT | GACGATATTA | ATCCTGAGAA  | AGATATAACT | ACAATTAATG | TTGAGCTTTG | 670860 |
| TCTATCTGAT | CTTGAAACTG | TTCAAAAAAG  | CCTTCAAAAA | CAAGAAAAAA | ATGCCAAAAG | 670920 |
| CACTGATAAG | AAAATTAGTG | AATCTTCTAA  | GGCAATTGTT | TTAATGTTAA | AAAGACTTGA | 670980 |
| AGACCATTTA | AGCAATATGA | ATCCTGCTGT  | TGAGTTTAAA | TTTGATGATT | TTGAATACAA | 671040 |
| CTTTATTAGA | TCATTAAATC | TTTTGACTTT  | TAAAAAAGTT | TTGTATGTTT | GCAATGTTGA | 671100 |
| TGAAAATTCA | CTTAGCGGCA | ATAAATATAC  | AGATATTGTA | AAAAATATTG | CCTTGAAAGA | 671160 |
| AGGAAATGAT | TTTTTAATCT | TATGTGCCAA  | AATTGAAGCT | GAAGTTGCCC | AAATAAAGGA | 671220 |
| TATATCTTAT | AAAAATGAAA | TGTTAAAATT  | ATTTGGAATA | AATGATAGCG | GTCTTGCCAA | 671280 |
| TTTAATTAAA | AAAGCCTATT | ATACTTTGGG  | CCTTAGAACC | TATTTTACAG | CAGGTTTGCA | 671340 |
| AGAAGTTAGA | GCTTGGACAT | TCAAGCAGGG  | CATGAGAGCA | CCCAAAGCTG | CTGGAATAAT | 671400 |
| TCATAGTGAT | TTTGAGAGAG | GTTTTATTAA  | AGCAGAAGTT | TATTCCTGTG | AGGATTTATT | 671460 |
| TAAATTTCAA | AGTGTTCAAA | AATTAAAAGA  | GAAAGGACTT | GTTAGAATTG | AAGGCAAAGA | 671520 |
| ATATATTGTA | AGAGATGGAG | ATGTAATCTT  | TTTTAAATTT | AATGTGTAGA | TTTATTTTTA | 671580 |
| TATTATGCGT | GATTTATTTT | TTAATAATGT  | AAAATTAATT | AGTTTGTTTG | TTTTTAATGT | 671640 |
| TGTGATTTGT | TTGCTTTATT | TGGGTTTTTA  | TGACGCAAGT | TTTTTTTACT | TTGTTTTAGC | 671700 |
| ACTTCTTTTG | GTAAATTTTT | TTGTAATTTT  | TTTTTATTTA | AGATATTTTT | ATTCTATTTT | 671760 |

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|-------------|------------|------------|-------------|-------------|------------|--------|
| TTTTAAGGGA  | TCTAAGATTT | ATTATAAGGG | TATTTTTTTTA | AGTTATAAATT | TTGATTTTAG | 671820 |
| TGATATTATT  | TCGTTTGAAA | AAAGATTATC | AGACAATGTT  | TTGATTTTGC  | AATTAAAAAA | 671880 |
| TAAAAAAAAG  | ATTAAGGTTT | GTTTTTGGAC | AGGCAACGGT  | TCAAGTGAAT  | TATTTAAAGA | 671940 |
| GCTTAAATTT  | AAGAGAAAAG | ATCTGTTTGT | CCCAAATTG   | GAAAATTTTC  | CAATAAGATA | 672000 |
| TTATTTATCT  | TGTACTTATC | TTTTTATGTT | TTTAGCTCGT  | ATTATGATTG  | CTTTATTTGT | 672060 |
| TTATTACATT  | TCATTAAGCA | ATATATTTAT | TTTTTTATTT  | ATTTGTTTTA  | TTGATATTAA | 672120 |
| AGTTTGTGTT  | GGGGATTTTT | CAGTTATTAG | CAATATAGTG  | TTATTTTATG  | AGTTTAGGAA | 672180 |
| AGATTCAATC  | TGTGAAAGAA | AAATTTTTTA | AAGTGAAATT  | TATTTTTTATG | AATTTTTTGA | 672240 |
| AAAAATTTTT  | ATTGCCAGAG | AATTTGAATT | TAACAATAAA  | AATTATTTAT  | GCTTTTTATA | 672300 |
| CAAAGAAAAT  | CATCAGACAA | AAAAGGTATA | TATTTTGAAT  | AAAAAATTT   | CTTATTCCAT | 672360 |
| GCAAAGGTT   | TTTGAATATA | TTAATCAAAA | CTATTGTACT  | AAATTAAC TT | AAATCTTTGA | 672420 |
| TTGACTATAT  | TTGAATTAGT | TGATATATTA | AAGCTATTGT  | TTAATAATAT  | TATTAAGGAG | 672480 |
| TATAACTTGA  | GAAAAAATGC | ATCTGCATTG | AAGCGCTCTC  | GTCAAAATTT  | AAAAAGAAAG | 672540 |
| ATTAGAAATG  | TAAGTGTAAG | AAGTGAATTA | AAAACAATAG  | AAAAACGCTG  | TATCAACATG | 672600 |
| ATAAAAGCGG  | GTAAGAAAGA | CGAAGCTATT | GAATTTTTTA  | AATTTGTTGC  | AAAAAACTA  | 672660 |
| GACACTGCTG  | CTAGAAAGCG | AATAATTCAT | AAAAATAAGG  | CTGCTAGAAA  | AAAATCTCGT | 672720 |
| TTAAATGTTT  | TGCTGTTAAA | GTAAGGAAAT | TAGTTTATGT  | CTTTTCAAG   | AAGACCAAAG | 672780 |
| GTTACTAAGT  | CAGACATTGT | TGATCAAATA | TCTTTGAATA  | TTAAAAATAA  | TAATCTGAAA | 672840 |
| TTAGAAAAAA  | AATACATAAG | ACTTGTAATA | GATGCTTTTT  | TTGAAGAGCT  | TAAAAGTAAT | 672900 |
| CTTTGTTTGA  | ATAATGTTAT | TGAGTTTAGA | TCTTTTGGTA  | CATTTGAAGT  | TAGAAAAAGA | 672960 |
| AAGGGACGCT  | TAAATGCTCG | CAATCCTCAA | ACAGGGGAGT  | ATGTAAAGGT  | CCTAGATCAT | 673020 |
| CACGTTGCGT  | ATTTTCGTCC | AGGCAAAGAT | TTGAAAGAGA  | GAGTGTGGGG  | TATCAAAGGT | 673080 |
| TAAATGCCGG  | TTAATATCGT | AGATTCTTAT | AAATGGGATT  | GTAAGCTAGA  | CTCCAGTTTA | 673140 |
| ACTTTTAGAG  | GAAAATTAAA | ATTTGAAGGA | ACTTTGTATC  | TTGATTCTTC  | TTTTGAAGGT | 673200 |
| GAAATATCTT  | CAAAAGGGGG | TGTGCTTTTT | ATTGGCAAGA  | ATAGTAAGGT  | TATTACCAAT | 673260 |
| GTGGTAATTT  | GTGATACATT | AATAGTAGAA | GGAATTTTGA  | AGGGCAATGT  | AAATGCTGCT | 673320 |
| AGTAAGGTTT  | ATTTAAACAG | CGGTTGTAAA | ATATATGGGG  | ATGTAAAAAC  | AAAAAAAATA | 673380 |
| TTTATTAATG  | ATAATATAAT | TTTTGATGGT | AAGTGTGAAA  | TGATAAAGTC  | TAATGAAATT | 673440 |
| GTAGATTTAT  | TTTCTTTCAC | CGTTTCACAA | ATAAAAGATA  | CTTTGCAATA  | GGGTCAGTGT | 673500 |
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|            |             |            |            |            |            |        |
|------------|-------------|------------|------------|------------|------------|--------|
| GGAATATCCA | TTGGTTACTG  | TTGAGATTAC | AAGCAAATCC | CATCCTTTTT | ATACCGGTCA | 675360 |
| GCAAAAGTTT | GTTGATGCAG  | CAGGAAGAAT | TGATAAATTT | AATAAAAGGT | ATAAAAAGTC | 675420 |
| CTAAAAATTG | GCTTTTTTGT  | ATAAAATTTT | GAGAAAATAT | TAATAAATCT | TTTTTAAGCT | 675480 |
| ATATTCTTTT | CCTATTAATT  | TTTCTAGGTT | GTTTTTTTCT | TCTTCGTATA | TTTGGTTATT | 675540 |
| TACTAAAGAT | GCAATGCTGT  | TGTGTTGTCT | TATTTGTGTT | AGAATCTTTG | TGGATATTTT | 675600 |
| TTTAATATCT | TGCGGTGTAA  | TTGTAAAGTA | GGCATTTCGA | ATATCTTGTC | TTAAGCTGTC | 675660 |
| ACTAATATTT | AGCATTTTTT  | TTCTATAGCT | TTGCAAAGCT | TCTGTAGCTT | TAGTTTTTAC | 675720 |
| ATAGATGTTA | GTTCCCTATTA | AGCCTATCAA | ATAGGTATAA | ATCTCATCAT | CTGTCATTTT | 675780 |
| ATTATTAGCT | AATTCTTCTA  | AAGATTTTTT | GAAAGCCTGG | TAAGTTTTGG | TGAAATTGGG | 675840 |
| ATCTCTGTAG | GACGCAAAAG  | AGAAGATTCC | ATTGGCGATT | GATGCGCTTG | CTCCGTATGC | 675900 |
| ACCCCCCATT | ACCCTTATTT  | TTTCCCAAAA | AATCCACTT  | CTTAATACAT | GCTCTAGAAA | 675960 |
| ATTTGCTTTT | GGATAATTCT  | CATCGTTGAT | TTTGTAAGT  | GGGAAACATA | TAGCATTAAG | 676020 |
| AGCTACTTTT | GATTGGATAA  | TTATTATTTT | TCTTAATGCT | TTGCTGTTTG | CGTCAAGATT | 676080 |
| GAGCAACCCG | TTGTAATGAT  | TGCTCTCTTC | TAGGCTTTCT | TTTAGATTGA | AAAATTCATT | 676140 |
| TTCTAAGTTT | TTAAGAATGT  | CGTCAGTATT | TCCCATTATT | AGTGCAGATA | GATTGTTTTT | 676200 |
| TAAATATATT | TTATTTTTTA  | AATTGTCTAA | TTTATTTGCG | ATTTCTTTTA | AAGATTCTGT | 676260 |
| ATCGGTTTTT | GCTTTTTTGC  | AAAATTCTCT | GCCTGTTATT | CCATTTTGCA | ATTCTTTTAA | 676320 |
| ATACTCATTT | AATTTTAGTT  | TTGATTTGGA | TCTTAACATT | GCTAAAAGAT | GTCCCTTAGG | 676380 |
| GATTAATAAG | GATTTAAAAT  | CATTTTTCAA | GCTTAGTGTT | ATTTCTTTTA | ATCTCTCATA | 676440 |
| ATCATGAAAG | TTAATATTAA  | TTAAAATTTT | TTTTATCAGC | TCAAATGATT | CTTTAACTTT | 676500 |
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| GTCGTAGCTT | TCAGATATAT  | TTATTTGCCC | CAAAGTATTT | TGGATTTTAT | TGTTAATGTT | 676620 |
| TATGTAAGAA | TAATTTTTTG  | TAGATAAATC | TTGAAGAGCT | CTTTTGAATA | AAGATAGGTA | 676680 |
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| AAATCTTCT  | GGATTTTGCT  | TAATTTCAAT | TTCCCTTGCC | ATCAATTTTT | TTTCAATTTT | 676980 |
| TTCTTCCATT | TCCTTTTCTG  | TATCGTGTGA | TGGAATAAAG | CTTATTAATG | TATAATGATT | 677040 |
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| CGTGAGATTA GCGGGAGTAA ATTTTATTAT CTAAAAATG AAGCAGTTTT TTTAGAAATT  | 679740 |
| GCTCTTATTA ATTTCTCTTT AAATAAATTA AGAGATAAAG GTTTTGATGT TTTTATTACT | 679800 |
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| AGCAATATTT ATAAGATTGA AGATACAGAT AAATATCTTG TGGGCACTTC TGAAATTACG | 679920 |
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| AGAGTTCATC AGTTTAGCAA GGTGGAGATG TTTTGTTTTT GCAAAGCAGA AGAATCTGGA | 680100 |
| GTTATTCATG ATGAATTTTT AAGTATTCAA GAGCAAATTT TTAGTGAGCT TGAAATTCCT | 680160 |
| TATAGGGTTT TAAATATTTG TTCTTTTGAT CTTGGTTCTC CAGCTTATAA AAAATATGAT | 680220 |
| ATTGAAGCTT GGATGCCTGG AAGAGACGGA AAAGTGTTT ATGGGGAGGT TACTTCAACT  | 680280 |
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| TCTATACTTG AAAACTTTCA GGATCAAAAG GGAGGAGTTA GAATTCCTAA AAGTTTGTTT | 680460 |
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|------------|------------|-------------|-------------|-------------|------------|--------|
| GAACGGTGTG | TTCCATTAAA | TGATGAGAAT  | AGTAATTATA  | ATCTTTTAAA  | TAAAAATTTT | 682440 |
| TTTTCTAAAA | TGGTTGATAA | AAATTTAATA  | AGCATTTCCTA | AATTTTCATGC | TTTTGTTTAT | 682500 |
| AGCGAAATAG | ACGAAGCCAC | AGCTATTTCAT | GACTATAATA  | TTGAATTTAA  | TTCTAGGTTT | 682560 |
| AATATTTTTG | ATTTTATTAT | AGTTTCTGTT  | GGTGAGGATG  | GCCACATAGC  | ATCGCTTTTT | 682620 |
| CCTTCAAGAA | AATTGTTGTT | TTCAGATGTA  | GAAGGTTATC  | AGTATGAATA  | CAATTCTCCC | 682680 |
| AAATTCCCAA | GCAAAAAGAA | AAGCTTAACG  | CCGAAATCTT  | TGTTTGTTTC  | AAAAGCTGTT | 682740 |
| GTTTTGTTAT | TTATGGGTGT | TGATAAAAAG  | TGTGCTTTAG  | AAAATTTTTT  | AGCTTCTAAT | 682800 |
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| ACAAACATTA | AAAGAGATGA | AAGTTATGCA  | GGATCCTAGG  | CTTTCCAAGT  | ATAAAAATGC | 682920 |
| TAAAAATTTA | AGCAAAAAAA | CCGTTGAAGA  | AATTGATACT  | TTAAGTTTAA  | ATAAAAATTT | 682980 |
| TTCCGATTCA | GAGATTCAAG | GCTCTATGCT  | TAGATCTTGG  | ATAAGCCTTA  | TTAAAGGAAA | 683040 |
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| AAGAGTTACT | AAGAAATCAA | AAAAGGTATG  | TTAAGGTTGA  | TGATAACTTT  | GCTTATGAGT | 683340 |
| TATTAAATAA | AACGTTAGGA | AAATCTAAGG  | CAAAATCAAT  | TTATAAAAAA  | GTTACTGGTA | 683400 |
| ATGATATTTT | TATTCCTTTT | GATTATTTGT  | CTCAAATTGA  | GCATGAACAA  | CTTTGGGCAT | 683460 |
| TAATTAAGGA | TGAGAATATT | AAAACGCTTG  | TTATATTATA  | TAATTATTTA  | AATAAAGATC | 683520 |
| AAAAAAAATA | TGTTTTTTCA | ATGCTAGAAG  | AAGAAGATAG  | AAGAAAATTT  | GTAAAAGATC | 683580 |
| TTGTCAAACC | AAGGCAATTG | AGCATGGAGA  | CAATAGAGGC  | AATTTCAAAT  | AAGCTTAAGG | 683640 |
| ATAGATTTAA | GATGCAGGGG | AATCTTAAGA  | CAGATAAACT  | TGATGGATCT  | AAGATACTTG | 683700 |
| TTGATATTTT | AAGCTATATG | GATTTTAATG  | AAGAGAAAAA  | TTTGCTTAAT  | AATATTAATA | 683760 |
| TGCGGGATTT | AAATCCTGTT | GTGGACAGTG  | AAATTCGAGA  | AAAAATATTT  | GATATCAATG | 683820 |
| TAATATTGAG | AATAATGGAT | AATGACCTTC  | ATAATATTTT  | AAGAGAGTTT  | ACAGACAAAG | 683880 |
| AGATTGCAAT | TATTATTAAG | GATAAAGCTG  | ATGAGGTTAG  | AGATAAAATG  | CTTTCAAATG | 683940 |
| TTTCAAAAAG | GCGCAAAGAA | ATCATTTTAG  | ACGAAGAAGC  | TTTTTTAGGA  | AAAATAAGTA | 684000 |
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| AAGGCGATTT | AATAATATAT | AGAAAAAATG  | AGGAATTTAT  | TTAATGACAC  | TTAATAAGTT | 684120 |
| GCGTAAAAAA | TATATTGATT | TTTTTAAATC  | AAAAAAACAT  | TTTGAAATAA  | TGGGGAAATC | 684180 |



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| GTATTCCTAT TCCAAGAATT GGCACAAAAA AAATCAGTCC AAAAAGTCCA AAAATTATTG  | 688020 |
| CAGGAATTGA AGAAAGAATG TCAACGCTCA TAGACAGTAT TTTGTAAAAT ATTTTACTAG  | 688080 |
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| CGCCTTCTGT TTTTCTATA GTTTGTATTA TATTTCTTC TTGATCAAGA TATTTTATTA    | 688380 |
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| TGTTTTAAAA TAAAGTTTGT TTTTTTTTGA AATAAAATAA AGAGTTGTAC AATACATATG  | 688980 |
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| TGTTTACAGT TAGTGTTCTA ATAGGAGAAA ATATGTTTTT TATAAAAAGA GGAGAGCCTC  | 689280 |
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| TTGCTGCTAA TGCAAGAGAT GCAAATTTAT ATGATTTTGG AACGGCTTTG AGCGATGAAT  | 689460 |

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| TCCATTAGAT  | TTTACCACTA  | TTCCGTCTTG  | TCTAAATTGA  | GCTTCTTCGT | GAGTTTTGAA | 690420 |
| TATTTTATTA  | AGAAGTAGGT  | CTTTTATAGA  | CGAATAAGAA  | CCAGAAGAAG | AGTCTCGATT | 690480 |
| GATAAAGTTG  | ATTTTAGCAT  | CAGGACCTCC  | CACTTGTTTC  | CAATTTTGAA | TTTCTCCATT | 690540 |
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| TGTTAAATCT  | CTTGATGATA  | TTGCTATTTT  | ATATATTTTG  | TTAAATAGCC | CGTTTATGCC | 690720 |
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| TAAAAATCATT | TCGTCTAGTA  | TTGGGCTTAC  | AGTTGTAGAT  | CCTCCAATTG | ATACAATTTT | 690840 |
| TTCATTGTCT  | TGATTTTTTAC | AGTTGTATAA  | TAAACTTGTT  | GATAGCATAA | AAATTAAGAT | 690900 |
| AATAACTTTT  | TTCATCAAGC  | AAACTCCTTT  | GTTTAAGTAT  | ATAATAGCAT | TAATTTAAAA | 690960 |
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| CCCCATATTG  | TTCTTGAAAG  | AGAATTCTCA  | AAAACAGGTA  | GGGGAGGGGC | GATAGTAAGG | 691200 |
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| TGAGGATAAA  | TTTCGATTAT | TGTTTTAGCA  | ATTTCTTTAA | GGTTTTTTTTT | ATATGATTTA  | 693180 |
| CTAGTAGATT  | TATATTCTTT | TTTAAGAATA  | TAAATTTTTT | TGTTTAAATT  | TTTTAATATG  | 693240 |
| TTTTCATTTT  | CTTCTGATTT | GCTTAAATTG  | CTTTTCATTT | GATACAATTC  | TTTTTCTACT  | 693300 |
| AATTTTAAAT  | TGGGATAGTG | GTTTAAATTT  | TTTAATTCTA | CTATATTATT  | ATTTTTTAAT  | 693360 |
| ATTTTTCCAA  | GCTCAATTAA | ATTTTTGTCT  | TTTTCTATCT | TTAACAAGTT  | GATTTCTGAT  | 693420 |
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| AGTTCAAATT  | TAGATATTTT | GTAATAAATT  | TTTCGTCCAT | GAGGACAATG  | TTTGATTCTT  | 693540 |
| AGTTTAAAAA  | ATTCATTTAT | TAAAAATTTA  | CTAAATTCAG | CGCTTAGCAT  | GTCATTTCTT  | 693600 |
| TTGACAGCCT  | TTCTACAGGC | AATAGTTGCG  | TATAAGTCAG | ATTCAAGAGA  | ATTTATTGTC  | 693660 |
| CTACTTCTTC  | TTGATTGAAA | AAAGTTAATA  | AGAGTATTTT | CATATTGACT  | ACAAATATTA  | 693720 |
| GGAATAGATT  | CAAGTTGATA | TTTTTTTAGGG | CCTATTTTAG | AGATTATAAT  | GTCCATTTGT  | 693780 |
| TTGTATTCTT  | CAATCTCACT | ATCTATAATT  | TCTTCTATGT | TTTTATCAAC  | TACTGTGAAT  | 693840 |
| TCAATTGGTA  | CTAGAAGTTT | TTGAACATTT  | TTTTTTGAAT | TTCTAAGTTT  | TTCATATATT  | 693900 |
| ATTTTTTTCGT | GAAGTTCGTG | TTGGTCTATG  | AAGTAAATTT | CATTTATTTT  | TTCAACGATT  | 693960 |
| AAAAATTCAG  | AGAATATTTG | TCCAATATAG  | TTAAATTTTA | TTTCTTCTTT  | TTCATTTTTA  | 694020 |
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| GTGTTTTTGT  | TTGGCTCGTT | TACATCTTCT  | GTTTCTAAAT | TATTGTTTTG  | TGGTATATCA  | 694200 |
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| TCTGTTAATT  | GTCTTTTTAT | TATTATGTCT  | TGGTAGTTAT | TTATATTTTT  | ATCAAAAAAA  | 694320 |
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| TTTTTTTGAG  | GGTGACATT  | AAAGTCAATA  | TATTCAGGGT | TTATTTCTAA  | AAATAAATAA  | 694440 |
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| TTAGAAAAGT  | TATCTGGTGC | TAAAAATATT  | TCTATTTTTA | TATTGTCATG  | TTCTTTTTTT  | 694620 |
| AAGACCCTAA  | ATTTATTATT | TTCTATTACA  | TTCCATATA  | CATTTTGAAC  | CCTGTCAATT  | 694680 |
| AACGATTCTT  | TAAAGTAAAT | TTTTCTTAGC  | TTTTGATTTA | AATTAATTTT  | GAAATTGATT  | 694740 |
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| ATTTGATAGC TTTCATTGCT AGTTGTTGAG CTTGTTATTG AAATGTTGGA GCAAATTGCA  | 694980 |
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| ACTATTCCTG CTTTAAATGC ATAATTGGGG TTTTGTCTGA GATTGTAGGC ATTTTTAAAG  | 696060 |
| CTTGCAAATG CTTGTTGCAT ATCGCCATTT TTTTCTTCTG CTATTCCTTT TTGGTAGTAG  | 696120 |
| GCGGTGCCAT AATTTTTATC AATTGTATT GCTTCTCAA AAGATTCTAT TGCTTTTTTG    | 696180 |
| TTTTTATTTA GCATCATTA AGCTATTCCT TTGTTATGAA GTGCTTTTTT ATGTTTTGGG   | 696240 |
| TCGAGTTTTA TTGTTTGATC AAATGATTCT ATTGAGTGTT CATACTTTTT AAGCTTGAAT  | 696300 |
| CTAATGATTC CAAGTTTATA GTGATCTTCT TGGGTATTG TGAGTTTGAT AATTTTTTCG   | 696360 |
| TATGCATTTT CTGCTTTTAG CAAATCTCCA TTGTTTTCAT AAGCTTGAGC TAAAGTTTTA  | 696420 |
| GAGGCCTGGG CGTCATTGGG ATTGTTTTTy AAGAATTCGT TTAGATCCTT AATGGCTTGT  | 696480 |
| TGGCGTGATT TTGTGTTTTT AAGATCAATG GGTTTTATTG AATGAACCTT AGATTTAAGG  | 696540 |

TCCTCCAGGT GTTGTATTTT ATTAGCTTGA GCTAAAGTTT TAGAGGCCTG GCGTCATTG 696600  
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TCAAGATCAA TGGGTTTTAT TGAATGAACC TTAGATTTAA GGTCTCTAG GTGTTGTATT 696720  
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TCGTTTAGAT CCTTAATGGC TTGTTGGCGT GATTTTGTGT TTTCAAGATC AATGGGTTTT 696840  
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GTTTTAGAGG CCTGrGCGTC ATTGGGATTG TTTTTyAAGA ATTCGTTTAG ATCCTTAATG 696960  
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TGCTTATCAT TTTCTATTTT TTGAGAATCG TTAAAAATAT TTCACTATT TGATTTTCCA 698040  
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TCGTTTCTGT CAGAGTAGTT TTCTGTTATT GTGCTGTCTT TAATGTATCT ATTATTAAAT 698280  
GCTATATCAA AATTTTCGTT TACATTTGTT TTTGTATTGT CTTGACCTTT GATCTTGTCT 698340



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|---|--------|
| AAGATTTGAT TAGCAGAATC TCTTTGCAAG TCTTTTGATT CAAAAGGACT ACTGTTGGCA | 698400 |
| ATTTCTGCTA GTGTATTTGT AAGCATTGCA ATGTCTTCAT TTTGGGGGTA TTTGTCTTGC | 698460 |
| AGAAGTTTTG CAACAGAATA TGCTTTTTTA TAGTTTCGAT CTATTACGCT ATTTTAACT  | 698520 |
| TCGTTTAGCA TTATTTCTCG ATTTTGTCA TTTAATTTGC TTTGATATAT ATAGTAACCA  | 698580 |
| AAGCCCCCAA ATGATAAGAT AAGTAAGAAA ATTAAAAGCA ATAATACCGA AAAATTTGTA | 698640 |
| TGTTTTTTAT TCATCTATGT ATAACCTCTC TTGCCAATTA AGTTTTTCTA GCTCAATTAA | 698700 |
| AGAATTTGTT TCTAGGTTGT CTTTAAACT ATCTTTAAGT ATTTGATTTT TATCTTCTTT  | 698760 |
| TGCGTATACA ATATGCTCGG TTCGCCCTT CAACTTTTG TCAAGTTGTT CAAGATTAAT   | 698820 |
| TTTTTCATTT CTAAATAGC TTATTATAAG CAAAATGCTG TCTTTTTTTT CTGTTTTTGA  | 698880 |
| TCTAAGGGTA ATAAATTGAG AGTAGTCGTG GATAGCCATA GTATAAGAGT CCCAAGCTTT | 698940 |
| TTGGTATTCT TTTTCTTTAG AAGTTATTTT GCCCTGTTGA ACATAGGCAT TAGCTCTGTT | 699000 |
| TAGTAGCGCA CTGTCATAAT TAGGTCTACT TTTAATAGAA TTAGAATAAT ATTTTATTGC | 699060 |
| TAAAGGATAG TAACCTTCCC CTCTGTAA CATTATGTTG CCTAATTCAT AATATAGTAT   | 699120 |
| GTAGTCGATT TCACCCCTA CTGCAATTCC ATCGAGCAAT GCTCCTTCTG CTTCTGTTAG  | 699180 |
| TTGATTATTT TCTCTGTATG CTATTGATAA AAAGTAATAG CCGAGTTGTA CTTTTGGATA | 699240 |
| TTTTTTAATA GCATCACTTA GTGTTTCGAT TGCTTGAATG TAATTTTTGT TTTTCATCTC | 699300 |
| TTCTTTGCCA ATTCTAATTA GCCTTTGAGA ATATGCCAAT TTTGAATTTA ATATTAAAAT | 699360 |
| TAAAAATAAA ATAAAAATCT TGTAATTTTT ATTTAAAAAT AAATAAATCC TCATTCTTTT | 699420 |
| CCCATTATAC TTATTTTAGA TTAAATGCCT TTAGATTTC AAGCTCTTT TTTAAAATTT   | 699480 |
| ATTTTTTGCT TCAATTTTGT TTTGAAAAA GAAATAAATT CTAATAAACT ATTTTTTTCA  | 699540 |
| TTAGATTTTA TCTTTCTATT GTTTTTTAAT TCTACCAAAT TCTCACAATA TATTAAATAG | 699600 |
| CACATTGCAG GTAATAATTT TTTCTCATTT TCATCTTCCA GTTTTTCAAT AAGATTAAAT | 699660 |
| CTTATATTTT TGATAATAAT TTTTAAATC CTTGATCTTG TTTTGTAGTA TTTTATTAAA  | 699720 |
| AGATATGATT TTTGGTAATC TAGTTGGTTA GGATTTATTT TTTGTATTTT TATTATTTTT | 699780 |
| TTAGGTATTG TAATTTTATT TTCGTCAAGG TAGAGTAGTA TGTCTGATAT AAATTTGAAA | 699840 |
| TGCTTATATT CAATATTTGG GTAAAAAGAT AGAAAATATA CAAATATTTG ATTTTGTATT | 699900 |
| TCAAAGGTTT TAGATTTGAA AAATTCTTTC ATGCGTTGAC AAAAAATTTT TTTATCCTTA | 699960 |
| TTATCAGCAT AAATATAGAA TGCAATCCAG CCATAAGTTT CTATATTCTG AGAATTTTTT | 700020 |
| TTGACATAAT GCATAATAAT TTCTAAAAAT GCACTCTTAA TGTATCTTTC TTAAAGATT  | 700080 |

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|------------|------------|------------|-------------|------------|-------------|--------|
| GAGCTTTCGT | ATGGGTTGAA | ATTTGTTTTG | TCAAAAGATA  | TAAAAAATC  | TTCTGTTTGA  | 700140 |
| AATTTTGCAG | TTATAATTTC | TTTTATTTTT | TCTTTTATGT  | TGATTAATTT | ATGTTTTTCA  | 700200 |
| ATGTATTCAA | GTGCATCTAT | GAAAGATTCC | CAATTATTAG  | ATATTTTGTC | TTTGAAAAAC  | 700260 |
| CAAGTTAAAT | ATTTTTTTGT | TATTGTTTTT | TCAATTACAT  | ATAAATAACA | CTTTAATGTG  | 700320 |
| TCTTGAAAAT | CTTTTGGGGC | GTATTGTGTG | AAATCGCTAA  | AAAAATAATT | AAAGCTAATA  | 700380 |
| TTTTTACTCG | AACCTTTATA | AAAAATTTCA | TTAAGACTTA  | AAGTTTTTAG | TGCACGTAAG  | 700440 |
| TAGTTTAAAA | TTTCATTGTA | TTTTAGCGCT | AGAATTTCTT  | CTTCCAAGTA | TTTGTAAGGT  | 700500 |
| TTTATTAAAA | TTTTAATAAA | AATATTTTTG | CTCAAACATC  | CAACTGGCCA | ATATGTAAGT  | 700560 |
| ATTAGCATTC | TTTTTAATTT | TATTAGTCTA | CTTCTTTTAT  | TGGTTAAGCT | TGATTTAAAA  | 700620 |
| ACTTTTTGAT | TTTCTGGTCG | ATATTTTAAA | TTTTTATTTA  | AAATATTTAA | TATTTTAATT  | 700680 |
| TTATTTCTGT | TTCTTACAGC | TACCAGAATA | TCTATTGTTT  | GTTCTAGGCT | GTCAATGTTA  | 700740 |
| ATATTGCTGG | AAAAATTTAA | TATAATTTGC | TTGTAAATGT  | CTTTTTTTTC | TTGAGAATAA  | 700800 |
| TAAGGGCTAT | TTTGTATTTT | AATTAGTTTT | AAAAAGTTGC  | TAGATTTTAG | TTTGTATGTT  | 700860 |
| GTTCCTAGTT | TTTTGGTGTT | GAGATTGGCT | TCCTTGCTTA  | TTTGAATAAA | ATTTTTGT TT | 700920 |
| CTTACTATTT | CTAATATCCA | TTTTTTAATT | GCTTCATTTT  | GAGTGTTTTT | GTAGTAGCAT  | 700980 |
| TCTTCAAGTG | AAGTGTTAAA | TGCATTTTTT | TCTTTTTTCAT | AATCATTGCT | AATTTTTATA  | 701040 |
| AGTTCAATTA | TTTCAGGTTT | TTCTAATTTG | TAAAGCTGGG  | AAGAAATGCT | ATATTTTAAA  | 701100 |
| ACTTTTTCTT | CTATATATTT | GTTTATATGC | TTTTTTAATG  | TGGCAAGGGA | ATCATAAAAT  | 701160 |
| TCTGAATCCT | TTTTAATCGT | TTTCATTTAT | TCCTTTTTTG  | ATAATTCCCA | TTAATTTTTT  | 701220 |
| ATCTTTTTTG | GCAGAATTTA | TTATTGCCTC | TAGATAACCC  | TCAAGAGTTC | CTATGTCAAT  | 701280 |
| TCTTTTCCCT | TCAATGTTTT | TATATAATAC | TTTTTTTTGA  | TCCATTAGCT | TTTTTAAAGC  | 701340 |
| ATAAATGTGA | TAGTATTCAC | CTTTTTTATG | TAGTTTGAAT  | CCTTCTTCTA | AATGTTCAAA  | 701400 |
| AAACTCATAA | TTGTACAAAA | ATCTTCCAAT | AGATGCTTTA  | TTGCTAGGCT | CACTTCCAAT  | 701460 |
| CTTTGGTTTT | TCAATAATGT | TTTTTACATG | GATTTTCGTCT | TTGTAGAGAT | CTATTACTCC  | 701520 |
| GTATCTATTT | ATATTTTCTG | GATTTTCAAT | GATAGATATT  | ATGTTCTTTC | CAGTTTTTTC  | 701580 |
| ATAAAGTTTG | ATCAATTGCA | AGCTTAATGG | TGGATTTCCT  | ATGCAAAGAT | CGTCAGGGTA  | 701640 |
| AGCTACAAC  | ACAGGCTCTC | TATTTATCCA | GGGTTTTGCA  | TAAAGTAGGG | CATTTCTCTG  | 701700 |
| GCCTAGCATT | TCTTTTTGTC | TTATGAAGCT | TATGTTGATT  | TTTTTGCTTC | TAATCTTTTC  | 701760 |
| TAATTCATCT | TTTTTATTTT | CTTTTAAAAA | AATATTTTCA  | AGTTCAATTT | CTCTGTCAAA  | 701820 |
| ATAATCTTCA | AGAACTTTTT | TTCTTCTTGA | GCTTATTAAT  | AAAATATCTT | TTATTCCTGA  | 701880 |

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| ATCGATAAAAT | TCTTGAATAA | TATAATCTAT | GGCTGGCTTG  | TTTAAAATTG | GTAGCATTTTC | 701940 |
| TTTTGGAATT  | GTTTTTGTTA | TTGGTAAAAA | TCTTGTTCCA  | TACCCAGCTG | CCAGAATAAT  | 702000 |
| GCCTTTCATA  | TTTTTCTCTC | TTAAAATAAG | ATTATAGCAA  | AAATTTAATT | TTATATATTC  | 702060 |
| ATTGTTTTTTT | AAAATTGTTT | TAAAATTTTT | ATTTATGTAT  | GTAAGTTCGG | GCAAATATAA  | 702120 |
| AGGTAAAAAG  | ATTTTGTTTC | CTAAGAATGG | CTCTGTTCTG  | CCTGTGATGT | CTCTTGTTAG  | 702180 |
| AGAAGCCTTT  | TTTCTATTA  | TTTTCAAGGA | TATTGTTAAT  | TCAAAATTTT | TGGATGTTTT  | 702240 |
| TGCAGGGACT  | GGTATAATGT | CTGTTGAGGC | TCTTAGCAGG  | GGGGCTAGTC | TTGCTCATCT  | 702300 |
| TGTTGAATGT  | AATAGAAAAA | TTAAAATTAC | ATTAGTTGAG  | AATTTTAGTT | TTGTTGAGGA  | 702360 |
| ATTTTATAAA  | TTCTTTTTTC | AAAGAGCAGA | GGATTTTTTG  | AGTAAAAAAG | ATCTTTTTTA  | 702420 |
| TGATTTTATT  | TATCTTGATC | CCCCGTTTAA | TTATAAAAAT  | AAGATTAATT | TGCTTGAGAT  | 702480 |
| TATTTTAAAG  | GGTAAAATTT | TAAATGATAA | AGTTAGCATC  | ATTATGCATT | ATCCTTCTAA  | 702540 |
| TGAAGATTTG  | GAGATAAATA | CATCAAAATT | TTCAGTTTAT  | AATTTAAAAA | GGTATGGGGG  | 702600 |
| GTCAAAACTT  | ATTTTTTTGA | AAATATTGTA | GGATTTATTT  | TTTTTTCATA | ACTAAAGGGA  | 702660 |
| ATGAGTTGAA  | TTTCATTTTT | ATTTAATTCT | GGAATACTGT  | TTTTTATTAC | AAAATCATCC  | 702720 |
| ACATTGTTTA  | ATGGATTTTT | TTTATAATTT | CCATTTGCAT  | CTTTTATTAA | AATTTCTTTG  | 702780 |
| TTCTCAAGAT  | CCATTATTAT | TTCTTCTATT | TTGTAAGTCT  | GGTTTTTTTT | GTTTATTATA  | 702840 |
| GATAGATTTG  | GCGCAATGCT | CATTTTGTAT | TCCAGAACAG  | CAGCTTGAAA | AAGATTTTCA  | 702900 |
| TTATTATTTT  | TTTTGTTTAC | ATCTACTATT | TGCCCATAAAT | CAAAAGGTGC | AAGTATTGTT  | 702960 |
| AAAAAATTTT  | CTAGCATTTT | AATGTCAAAT | TTTTTGTTTT  | TTGTTTGCTC | TTTTGGCTCT  | 703020 |
| TTTCTGCTCC  | AGTAGTATTT | CCCACTATTT | TCTATTAAGA  | ATTTAACAGT | CTCTAAAGGG  | 703080 |
| TTAGCACTTT  | CTTTAATTAT | TATTGGATTT | ACCAATTCAT  | CGTAAGTGTC | TACTATACAA  | 703140 |
| AAAATTCTAA  | CAAGTTCATG | AATAAATTTG | TTGATTTTTA  | GCTGTGGATG | TCCAGTAGCA  | 703200 |
| TCAAGGTAGT  | CTTTTTGTCC | ATTGATTATC | ATTTTTGTAA  | TAGCTGAAAT | ATCTTCTCTT  | 703260 |
| ATTCTAAACA  | AATTTTTAGC | AATGTTAATA | TTTTTTTCCA  | AGTGCTCTAT | TTTAAATTTG  | 703320 |
| TGATGTTCTT  | TAAAATTTTT | GTCTTTAAGG | CTTATTTTAT  | TCCCCATATT | TTCCAATATT  | 703380 |
| GTTATATGCA  | TTAATCCTAT | TGAGTGTAGC | AATGATCCAA  | GTGCGGCTTG | TAGTATCATG  | 703440 |
| TCTTCTGCAT  | AAAAAAATTC | TGTAAATTCG | TTATATTCAG  | TTTTATCAAG | AAAAAATTTA  | 703500 |
| ATAGTTGAAC  | GAGGTGCATT | TTTCAAAGAC | CTTATTTTGT  | TTAAATTTGC | AATTGTAATT  | 703560 |
| AAAAAGTAAA  | TTGTTGTATC | GACTGAATGT | AGTAGTATTG  | AATCACCTTC | TGTTTTGACT  | 703620 |

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| TTTCCTTTAA | AAAATTCATA  | GTCTCTTCTA | GCAGAGTATA | AATATAATTT  | TTTTAAAGTT  | 703680 |
| TTTTTATCTT | TAAGGTTTTT  | TTTTGTCCTA | AGCTTTTTTA | CATCAAAATA  | ATGATATATT  | 703740 |
| TCTAATAAAA | TTTTTTGCAA  | AGATGTTATT | TTATGTCTTG | GAAGTATTTT  | AAAGCTTCCT  | 703800 |
| TCCAATATTT | CTTTCCAATA  | AATTTGATTA | GGCTCAGTCT | CCATCAATGT  | ATTTATTTTC  | 703860 |
| ATGAGTGGTT | TTTTGCCCTT  | GGTAATAAAT | ATTGGATCGT | CTTCCTTAAA  | GGGCTTATAT  | 703920 |
| ACATCTTTTA | GGTTATCTAT  | TAGCTTTTCT | CTTAAATAGT | TAAGATCATC  | ATTTAAATTT  | 703980 |
| TCTTCATTTA | TTTTTTTTTAT | CAGGTCTTCA | TATGATTCAT | CTTCTTCTTT  | TTTAAGTACA  | 704040 |
| GGAATGTATG | GCGTATTGCC  | TTTGGAAAGT | ATTTTAATGA | TTTTTTCATT  | TATTCTTG TG | 704100 |
| CCAAGTTTTG | ATAAGTTTCC  | TATTCTTGAG | AAAATTATGT | CTTGTTTCGCT | TAGATCTTTT  | 704160 |
| ATTTGCTTTA | TTTCTTTAAG  | TATCACTTTG | AGATCCTTTT | AATCTTTAAA  | TAAATGTCGC  | 704220 |
| CGAGGAGAAT | CGAACTCCTG  | ACACAAGGAT | TTTCAGTCCT | ATGCTCTACC  | AAC TGAGCTA | 704280 |
| CAGCGACAAT | TGTAATTTAA  | ATAAATGCAT | GCTGCCGAGG | AGAATCGAAC  | TCCTGACACA  | 704340 |
| AGGATTTTCA | GTCCTATGCT  | CTACCAACTG | AGCTACAGCA | GCATTTTTAT  | TCTAGTACCT  | 704400 |
| TAATTTTTTC | ATAAGTATAT  | ATGTTTGTCA | ACTCTTTTTA | AATTTTAGCT  | TTCAAATGTA  | 704460 |
| GTGCTAAAAA | AATGATTCAT  | AGCTAGTTTT | TAGGCTTTAA | AATGGACAAT  | TTCTAAAAAT  | 704520 |
| TTAGTTAATT | TTTCAAGGTG  | TGTAGTAAAA | TATTTTTTTG | GTATTTTTTT  | AAATTTAAAT  | 704580 |
| AAAGATTTGC | ATTATTATTT  | AATCTATAAT | AATAGATTAA | TAATATATAT  | TTTACAGGTA  | 704640 |
| TTTAAAGAAA | AAATTTATAC  | TAATAAACTT | TCAATTTCTT | TTGTGAAGAT  | ATTGAAAGAA  | 704700 |
| ATCCATGTCT | GTTGAGAAAA  | TTTTTCTTTT | ATCTTTTAAT | ACTGCTTTAT  | AGCTTTCTAA  | 704760 |
| TGCCTGCCAG | AATTTGTAAA  | ATTCAATATT | TTTGCCATAT | GCATTTGAAT  | AAATTTTTGC  | 704820 |
| GGCTTCTCTA | TCCCCTTCCG  | CTTTTATTTT | TGCAGCAGTG | GCTTTTGCTT  | CAC TTAATAT | 704880 |
| TTTCAGTTTT | TCTTTTTCTA  | TGCTTCCAAG | AATTTCTGTT | TTTTCAGCTA  | ATCCTATGCT  | 704940 |
| TCTTTGTTCT | TCTGCGATTT  | GTTGTCTTTC | TGAGATCATT | CTGTTGTTTA  | CAGATTCAAT  | 705000 |
| AAGGCTTGGG | TCATAAGTAA  | CTTTTCTTAT | TAGTACGTCT | ACAATTTCAA  | TTCCAATATC  | 705060 |
| TTTGGTATTG | TTGTTTGCTA  | TACGAATTAT | TTCTTTTTTC | ATTATCTTTC  | GTCC TTTTGT | 705120 |
| TATTTTATAA | ATACCGTTAA  | TTTTTTGTTT | TTGTGGGGTG | AGTATTCCAT  | TAGACAAACG  | 705180 |
| TTGAATAGGA | TCGTTTGAGC  | TTCTTATAAT | TTCAAGCAAA | GGGTATTTTG  | CAATAACCCC  | 705240 |
| CCTAACAGCA | GGTTCAATTG  | CTGCATCAAT | TCTAACGTAA | GCTCTACTCA  | TTGTTTTTAT  | 705300 |
| TGTTGTGTAA | AATTTATTTA  | TGTCTGCAAT | TTTCCATCTA | GCAGTTGTAT  | CAATCCATAT  | 705360 |
| TAATTGCTTT | TCTTCCCCTC  | CTGTTGGGAT | TCTTTGAGGT | TCTCCATCCC  | ATCTAAGAAT  | 705420 |

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|-------------|------------|------------|-------------|-------------|-------------|--------|
| GATTTTGGGA  | AATATTTGCA | CATTTTCAAT | TAATGGTATT  | TTATATTTAA  | GTCCAGCTAA  | 705480 |
| ATTTTCAGTT  | CTTTGAATTT | TTCCAAGTCG | AGTGGTTATT  | GAAATTTTCAT | TTTCTTTCAA  | 705540 |
| AATATAAATT  | GGCTGGAAAA | TAGACAAAAT | AGTCAAGCAA  | ACTATTACTG  | TAAAGGTTAT  | 705600 |
| AATCTTTATA  | GTAGATAATA | AAAGATTTAT | TATAAATTTT  | ATTTATTTTA  | CCTCTTTAAA  | 705660 |
| TGGTAGAAAA  | TTTTTGAAGT | TTTTGTCAAT | TAATTCAATG  | TTATCTTTGT  | TTTCAAGTAT  | 705720 |
| TTCTTTTCATG | GTTTCATTGT | AAAGTCTTTC | TTTTGTGATA  | TCGGGATTTT  | TTAAGTAAGC  | 705780 |
| GTCTAATATG  | GCATTGAAAA | TTTCTGTGTC | TGCTAATGCA  | TTGTTTATTC  | TGCTTTCTTT  | 705840 |
| ATATCCTCTA  | GCTTCTTCAA | TAACCTTTAA | TGCTTCACCT  | TTGATTTTGG  | GAAC TATTTG | 705900 |
| ATTAAATTCT  | TTTCTCCCTT | CGTTTATGTA | TTTATTTTTG  | TCTTGAATTG  | CAATGTTTAC  | 705960 |
| ATCTTCAAAA  | GCTTCATAAA | CTTTTCCTTT | TGGGGGTAGG  | GCATTTCTAA  | TTTGTACTTG  | 706020 |
| CACTACATCA  | ATGCCTAAAT | TATAATTATC | TATTATTTCA  | TTCATAGAAG  | ATTTTACGCC  | 706080 |
| TTCTGTTATT  | CCCCTCTGT  | TATCATTTAT | TATTTCAAAA  | ATAGTATTAT  | CCCCAATCAA  | 706140 |
| TCTATTCATT  | GATGACTTTG | CAATATCTTT | AATTGTTGTT  | TCAGGATCTT  | CTACTTTAAA  | 706200 |
| TTTGAATGAA  | TAAGGATCTC | TTATTTTGTA | TTGCAC TAAC | CATTCAATGT  | TTATGATATT  | 706260 |
| TAAATCCCCA  | GTAATAATCC | TGCTTTCGTC | GTTTGCAFTA  | TCATTTTCTC  | TAATATCGCT  | 706320 |
| TGGAGATATT  | AGAAATCCAA | ATTTAATTTT | TTGGACTATT  | TTTACAGGTA  | CGATAAATTT  | 706380 |
| TTCTTCAATT  | AATGGAATCT | TGACGTGTAT | TCCTGAATCA  | AGATCTGT    | AAGCTTGCCA  | 706440 |
| AGGCGAAGTA  | CAATTGCCTC | TTCTGATGGC | CCTACTATGA  | ATATGTTTGC  | AATAACTATT  | 706500 |
| ATTGATATTA  | GTATCAGGGT | AATAATAATT | ATTAAATATT  | CATAAGTTTT  | ATTAAAAATT  | 706560 |
| TGTTTTATGT  | CAAACATCTG | CTTCTCCTAA | TGTTTTAAAT  | TATTTTTAGT  | AAGCGAATTT  | 706620 |
| TGTCCTACT   | TTTTAGATTT | GATAAAAGTT | ATTGTTTCAA  | TTTTATTATT  | CTGAATTTCC  | 706680 |
| TTAATAAAAT  | ATTCTCCATC | ATTTGTTTTT | ACGGTTTCGT  | TTTTTGTTGG  | TATTTTGTCA  | 706740 |
| AGCAGATCTA  | TTAAGTATCC | ACCAATTGTA | TTTGTATATT  | CTTTATGTTT  | AATGGATATC  | 706800 |
| CCAATTGCCT  | CTTCAATCTC | GTCAAAAGTA | GTTTCTCCAA  | GTATTGAGTA  | AGTATTGTCG  | 706860 |
| TTGATTTGAG  | TAATCAGAGG | CTTTTCCTCT | TTAATGTCGT  | ATTCGTCAGA  | TATTGCTCCA  | 706920 |
| AAAATTTTTT  | CTACTATGTC | TTCTATTGTA | AGTATCCCTG  | AAAAACCACC  | ATATTCATCG  | 706980 |
| ATTACGATTG  | CCATTATTTT | TTGTTTTTTC | CTCATAATAT  | CTAGTATGTC  | TTTTATCCTT  | 707040 |
| TTGTTTTGTT  | GTACAAATAC | AGCTGGTTTA | ATAAATTGAG  | AAACGTTTTT  | ATTCATATCT  | 707100 |
| TTTTTATTGA  | CTTCTATGAG | GTCTTTGGCT | ATTAAATCC   | CAATTATCTG  | TTCTCTGCTT  | 707160 |

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|-------------|-------------|-------------|------------|-------------|-------------|--------|
| TGTCCTTTGT  | ATATAGGAAT  | TCTAGAGTAT  | CCTTCTTCTT | TGATCAATTT  | GATTACATCT  | 707220 |
| TTTAGCTTTG  | ATGAGCTTGA  | GAGTGAAAAA  | ACCCCTGTTC | TGTGGGTCAT  | GATTTTCAGAA | 707280 |
| GCTCTTACTT  | GATCTATATC  | TAACATTTTT  | TGCATAAATA | TTCTAGAGTC  | ATTTTTTAAA  | 707340 |
| ATTCCTAAAC  | TTCTTGCTAA  | AGAGAGCATA  | TTTTTTATGC | TCTCTTTAGT  | CATTTGGGAG  | 707400 |
| CTAGTCTTAA  | CTTTAAAGAG  | ATTTAATATT  | TTTTTTATGA | TTTTGTTTAT  | TATATATATT  | 707460 |
| AGTGGAGTAA  | ATATAAAAAAT | TAATGGCTTT  | AAAAAAATG  | AAGTAGATAG  | GGCAATTATT  | 707520 |
| TCATTATTTA  | AAATTGCAAT  | TTGTTTTGGA  | AGTATTTCCG | CAAAAATTAG  | AACGATTATT  | 707580 |
| GTTATTAGGC  | CCGTTGATAT  | TGCAAGTGCG  | CTGTTTCCGT | ATTTTTC AAG | TACAAATTTT  | 707640 |
| GTTGTAAGTG  | TGCTTGCTAC  | AATGTTTGAT  | ATATTGTTGC | CGATAAGAAT  | AGTAGTAATT  | 707700 |
| AATTTTGAAG  | GAGATTGAAC  | CAAATTGTAC  | ACGGATATTC | CCGATTTCCC  | CTTTTTTCTT  | 707760 |
| ATGTCTTGTA  | TCTGAATTAT  | GCTTAATGAA  | GTATAAGCTG | TTTCAGATGC  | TGAGAAAATA  | 707820 |
| GCAGATAATA  | TTATAAATAG  | TAGTATTATG  | ATTAATTCTA | GCATATATGT  | ATTATTTTAA  | 707880 |
| TTTATCTTTA  | ATAAAAATGC  | TTTAAGTTAT  | GTCCTTAAGT | ATAAAAATAT  | TTTTGACTTG  | 707940 |
| ATCTTAGAAG  | GCGCTGACCG  | GAATCGAACC  | GGCGAATCAA | AGTTTTGCAG  | ACTTCTCCCT  | 708000 |
| TAGCCACTTG  | GGTACAGCGC  | CTTGTAACAT  | TGCTTAGTTT | ATTAAAAAAA  | TAGAAAATTG  | 708060 |
| TAAATATATT  | TTCTATTGAA  | GCATAATTTT  | GAATTTCTTA | GCTATTTTTTA | TTAGTTTTAT  | 708120 |
| GTAAAATTTT  | AATGTATGAA  | TAAAAAACTT  | AATGAAGTTT | TATTAAAGTT  | AGATCAAGAT  | 708180 |
| TTAATAAAAT  | GTGTAAAAGG  | TTCTCTTGAT  | TTAGAAATAT | CAGGAGTTAC  | TTATAGTTCT  | 708240 |
| AAATTGGTTT  | TGCCCAGGTT  | TGTGTTTTTT  | GCTCTTCCAG | GAATTCATTT  | TGATGGGCAT  | 708300 |
| GATTTTATTG  | AAATTGCAAT  | TCAAAAGGGT  | AGTAATGTTG | TTGTGTGTTT  | ACGAGATGTG  | 708360 |
| GATTTTTTACA | GTCCTAATGT  | TACTTATATT  | AAGGTAGATG | ACTTTAACAT  | AAGAAAATTT  | 708420 |
| ATGTCTAATT  | TTTCAAATAT  | TTTTTTATGAT | GAGCCTTCAA | AAAAATTAAA  | AGTTATTGGA  | 708480 |
| GTCACTGGCA  | CTGACGGGAA  | AAGTTCTGTT  | TGTTATTATA | TATATCTTCT  | TTTTAAAAAA  | 708540 |
| AAGGGTGTTA  | AAGTAGGTTT  | TATATCGACA  | GTATTTTTTT | ATGATGGGAG  | TGGAAGCTTG  | 708600 |
| ATTAAAAATC  | CTTACAGACA  | ATCAACTCCC  | GAGTCTACGG | AAATACATTC  | ATTTTTAAGC  | 708660 |
| ACCATGGTTA  | AAAATGAAGC  | TCAATATGCA  | ATTCTTGAAT | CTACTTCTCA  | TGGGCTTGAC  | 708720 |
| CTTGAAACAG  | CAAGGCTTAT  | TGATGTTAAT  | TATTTTGCAG | TTGTTTTTAC  | CAATATTGGA  | 708780 |
| CATGAGCATC  | TTGAATTTCA  | TGGCACAAAT  | CAAAATTATT | TGAATGTCAA  | GCTGGGTCTT  | 708840 |
| TTTCGGTCTG  | TTAGTGATGA  | TGCTGGTTTT  | GGGGTTATTA | ATCTTGATGA  | CCTTTATTCT  | 708900 |
| TCTGATTTTA  | AGAATGCTGT  | TAAGAAATCT  | TTACTTATA  | GCTTAAAAAG  | CAGTAAAGCG  | 708960 |

|             |            |             |            |            |            |        |
|-------------|------------|-------------|------------|------------|------------|--------|
| GATTTTTTTTG | TTAGTTTTAT | TGATGAGAAA  | ACCGATTCTA | CTAGATTTGA | ATTTTATCAC | 709020 |
| AAGGGGGTTA  | AATATCTTGC | TAATGTTAGC  | CTACTGGGGA | GTTTAAATGT | TGAGAATGTA | 709080 |
| ATGGCTGCTC  | TTATTTTAGT | TTCTCAAATT  | TTAAATATCG | ATATTCAAGA | TATTGTTGAT | 709140 |
| AAACTTAACT  | GCATTAAAAG | TCTTGATGGG  | CGTATGGATA | GTATTAATTT | GGGGCAAAT  | 709200 |
| TTTTCTGTAA  | TAATTGATTA | TGCTCATACT  | CCTGGTGCTT | TTTCCAAGCT | TTTTCTTATT | 709260 |
| TTTAAAGAT   | TTGCTACCAA | TAGATTGATT  | TCTGTTTTTG | GCTCTGCAGG | AGAAAGAGAT | 709320 |
| GTTGAAAAAA  | GATTTTTGCA | AGGGCAAATC  | GCAGATATTT | ATTCTGATTT | AATAATACTT | 709380 |
| TGCGATGAAG  | ATCCAAGAGG | CGAGAATAGT  | ATGTGTATAA | TTAAAGACAT | TGCAAAAGGA | 709440 |
| ATTGTAAATA  | AAGTTGAAAA | TAAGGATTTA  | TTTTTTATTG | CTGATAGAAA | GCAGGCTATT | 709500 |
| GAAAAAGCAA  | TAAGTCTTGC | AAAAGCAGGA  | GATTTGGTTG | TTGCTTTGGG | CAAAGGTCAT | 709560 |
| GAAAGTTCAA  | TAATTTATAA | AAATAGAGAA  | GTTTTTTGGA | ATGAACAAGA | GGTAGTTAAA | 709620 |
| AATGCTATTT  | TAAGTTTAGA | AAAATCAGAA  | AAGGAGAAGT | GATTTGAAAA | AAAATCTTAT | 709680 |
| GTTGATATTT  | GGTGGCGTTT | CTTTTGAGCA  | TGAAATTTCT | TGCAAATCTG | CTTATAGTAT | 709740 |
| TTATTTAGCC  | CTTTTGATC  | TAAATAAATA  | CAATATTTAT | CCTGTTTATA | TTGATAAGTG | 709800 |
| TACAGGTGTT  | TGGTATTTAT | TAGATTCTGT  | TTCTGATCCT | CCCAAGCCCA | TTAATACAGA | 709860 |
| TGTTTTACCT  | ATTGTTAGTT | TATTGCCAGG  | TTTTGGAATT | TTTTCAAACA | ATAAAAATCT | 709920 |
| TGAAATTGAT  | GTTGTTTTTC | CCGTTGTTCA  | CGGAAGAACC | GGTGAAGATG | GCGCTATTCA | 709980 |
| AGGGGTTTTA  | AAGGTTATGG | ACATTCCTTG  | TGTTGGTGCT | GGTATTATAG | GGAGCGCCAT | 710040 |
| TTCTAGTAAT  | AAGTATTTTT | GCAAACTTTT  | GCTTAAAAGT | TTTGATATCC | CTTTGGTTCC | 710100 |
| TTTTATTGGA  | TTTAGACAGC | ATGATTATTT  | TTTAGACAAA | GAAGAAATAA | AAAGAAATGT | 710160 |
| AAAAGGAGGT  | TTTAGGCTAT | CCTGTTTATTG | TTAAGCCCGC | AGTATTAGGG | TCTTCAATTG | 710220 |
| GAATAAATGT  | AGCTTACAGC | GAAAATCAGA  | TTGAATCTTT | TATTAAAGAA | GCTTTAAAGT | 710280 |
| ATGACCTTAC  | TATTGTAATA | GAGAAGTTTA  | TTGAGGCTAG | AGAAATCGAA | TGTTCTATTA | 710340 |
| TTGGGAATGA  | AAAGATGAAA | ATATTTTCTC  | CTGGGGAAGT | TGTTGTGCAA | GATTTTATAT | 710400 |
| TTTATGATTA  | TGATGCTAAA | TATTCTGTTA  | TTCTTGAAA  | TTCTATTATT | TTTAATATTC | 710460 |
| CTGCACATCT  | TGAGACAAAT | CAGTTATTAA  | GCATTAAAGA | ATATGCTTTT | CTTACTTATA | 710520 |
| AGAATCTAGA  | ACTCAGAGGT | ATGGCAAGAG  | TTGATTTTTT | TGTTGAAAAA | AAATCAGGAA | 710580 |
| CTATTTATCT  | TAATGAAATA | AACACTATTC  | CAGGATTTAC | CGATATATCT | ATGTTTGCTA | 710640 |
| AAATGTGCAG  | CAATGATGGT | CTTCAGTTTA  | AAGACCTGGT | GGATAATTTA | ATTGATTATG | 710700 |

|            |            |            |             |             |             |        |
|------------|------------|------------|-------------|-------------|-------------|--------|
| CTTTTCAAAG | TTACATTAAT | AGGAAAAAAA | GGATTGATTT  | TGAAAATTAA  | TTTAGATTAT  | 710760 |
| TAGATTAAAT | TAATTTTAAA | TTTTTTAGAT | TTTCAATCTC  | TTTATCATCT  | TTTAGTTTAA  | 710820 |
| AGTATTCAAG | ATTTTATAT  | TTTTCTGCTT | TAGGTAATAT  | TCCTGAATAT  | TTTATTTTGT  | 710880 |
| AAGAATAATT | TATTTTATA  | TTTTTTTCTT | CTGTATTATT  | AGTTTTATTG  | TAAATTTTAA  | 710940 |
| TTTGATTTTT | TTTAATATA  | ATATTTGCAA | ATGCTTCATA  | TGCTATGTCA  | TCTTGAGATT  | 711000 |
| TAAGAGTAAA | TGCAATTGTT | GTTTTTTTAG | AGTTAATGTT  | TTTAAGCGTA  | AAGATAATTT  | 711060 |
| TATTAGCCAA | TATTTTATA  | GGAGTATTGC | TTTGATAAAT  | TATTAGTTTA  | GATGCGTTTT  | 711120 |
| TAAAATGCAG | CTCGATTGA  | TTTGCAATTT | TTTGAGTAAC  | CAAATCGATA  | CTATAAACAG  | 711180 |
| CTCTTTCTGC | TATATCTATT | TTTTTTAAAT | CAATATTCAT  | TAGCTCATCA  | TCGACTTCAA  | 711240 |
| TGTTAGTTTT | TAATATTTTT | TCGTTTGCTT | GTAAAGTTAG  | ATTAAAGTCA  | TTTGAAATTA  | 711300 |
| TTTGGATAGG | ATGTTTTTTA | TCTTTTGGAT | ATTCAATTTT  | TATTTTGTTT  | ATTTTTTCAG  | 711360 |
| GAAAGCTAAC | CGTTTGTCT  | ATTTGTATTT | CATGCTCTTT  | TTTATCAATA  | TTGCTGGATA  | 711420 |
| TTATGATTGT | GGTTATTAAA | AAAAAAGTTA | CAAGACCAAG  | GTTTTTCAGCT | TTTTTTAAAT  | 711480 |
| TTTGTTTAAT | TTTTGGGAGT | TTGGATTTTA | AATGTTCTGA  | GATATTAATA  | AATATGCTAG  | 711540 |
| AGAAAAGACA | AGTTGATATT | ATATAGCTTA | GTGTAAGTGT  | ATTTTTGATT  | GATGTAGTAT  | 711600 |
| TTTGTATTAA | TGTTATTAAT | ACAAAATGA  | TTATCCAAAT  | GATTAATATC  | ACTATTTTTTC | 711660 |
| GAATAATGGT | ATTTTTATTT | GGCTTTATTA | ATAATAAAAT  | GCTTTTTATG  | ATAATTATTA  | 711720 |
| AGATAAATTC | TATTTTAATA | AACATTAATA | TTATTGGTTC  | GATAATAGAG  | GTTGATATTG  | 711780 |
| CTAGGTATTT | AAGTTGTCTG | TAATTTAAAT | ATATTGTGAA  | ATTATATGTA  | AAAAGAGATA  | 711840 |
| AAAGATTATG | TATGAGCAAA | GTTGCAAAAA | AAGTTATTAG  | ATATTTGGGA  | TTTGTTATGC  | 711900 |
| TGTAAATCGC | TGTGTTTTCA | TAGCCTGCAA | ATATTTTATT  | TGTAAGCAAT  | AAGGATATGT  | 711960 |
| AAGTGCTTAA | AAACAAAGTA | AAAAACAATC | TTACTAATTT  | GTAATAATTA  | TTTTTTACTT  | 712020 |
| TTTTCATAAC | TATTCGGGCC | TCTTTAAATT | TTCTAATAAA  | TACAATTATA  | ATTAAGTTAT  | 712080 |
| AACAAATGTA | AATTAATGCT | ATTAAAGCAA | TTTCATTAAT  | TATTATTTTT  | TTAAAAGGCG  | 712140 |
| TATCAATTAC | AATATAGTGT | GTTTCATCGG | TATTTTTACT  | TTGTACTCA   | TTAGTTAATG  | 712200 |
| TTTCTTCGAT | TGATTTGTAA | ATTTCAAAAA | TAGTATTTTT  | ATTTTGAGTT  | AATATAGGGT  | 712260 |
| TTAAATTATT | ATTTATTATT | AAAAGGGGTA | TAGATTCATC  | ACGATATAGA  | TTGTACAAAT  | 712320 |
| TGTTTGATTT | TTTTTCAGTT | ATTTTGTCTG | TATTAAAAATC | AAGTTTATTC  | TTTTCAAAAG  | 712380 |
| TTTTTATAAT | AGCTTTTAAA | AATCCTAAAT | TTGTTTTTGA  | ATTTGTTATG  | AAAGATTTCAT | 712440 |
| TTTCTAAGTA | AATTTTATTT | TTTATTTTAT | TTTCGTTTAA  | CATTAAGTAT  | ATTGTATTTG  | 712500 |



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|------------|-------------|-------------|------------|------------|------------|--------|
| TATTTTCCC  | CAAATACTTA  | TTACTAAGTA  | AAATTCTGCT | ACTAATTATT | GTATTTTGTT | 712560 |
| CTAAAGAATC | ATCCTCAACA  | AAAAAAAAAT  | TTATGTTGTT | TTCAGGATTA | GTATTTTTAA | 712620 |
| GTTTATTTAA | AAGCTCAATT  | GCAATTCCAA  | TTGCTAAATT | ATTTTTTAAA | TTATTTTGTA | 712680 |
| TTTTAATTGG | AGTGATTATA  | TTATAAGTAT  | TTGCGTTTTT | CCCTTTGATT | TTAGAATGTA | 712740 |
| TTATTTTTTG | TGAATATCCA  | ATAAATCCAA  | TCTCTTGTA  | AGAGTATTCC | ATATATTTAA | 712800 |
| CTTCATTTGT | ATTAAAAAT   | TTTTTTATAT  | AATTAAAAGT | GTTTATTATT | TTTTCTTGTC | 712860 |
| TTTCATTTAG | TTGATGAATT  | TTCTAATGT   | GCGTTTTTAT | GTTCTTTTCA | GTTTCTATGC | 712920 |
| TTGTAATTTT | ATTGCTTGAA  | TTGAATGCAT  | TTTTTTCCAT | TTTATTTGGC | ACAATGGTGG | 712980 |
| GGCCTGTTGA | GCTAAGCAAT  | AACAATAATA  | ACAATATATT | AATTGTCATA | ATTTTAAATG | 713040 |
| TCTTCTTCTA | TTTGCATTAT  | TTGTAAGATA  | TTTGGGTTTT | CTTTTAAAGC | AGAAATAATT | 713100 |
| TTTGTTATAT | TTTTAGCATT  | TGATGAGACT  | ATTATATTTG | TTATTCCATG | ACCATTTCCG | 713160 |
| CAGTCTTCTA | TTTTTTTCGCT | AATAAGTCTT  | ACGTCATTGA | GTGTGAAAAT | GTTTTCAAGA | 713220 |
| TAGCTAAATA | TTCTTTTAAG  | CTCTTTTAAA  | AGTAAAATAA | TGTGATGCAC | TTTTCTAGTT | 713280 |
| GGTGTTGCTT | CCCACTCAAC  | TTCAATCAAT  | TGGGGTTTTT | TATAGGATTT | AAGCTTTTGA | 713340 |
| CAATTTTCAT | TGTGCACTAT  | TATTTTCGTCT | TTATGTATTA | TTCCAATAAT | ATCTTCACCT | 713400 |
| GTTGTTGGAC | TACATTCAGG  | GTCTATTGCA  | ATTCTTTTTA | TTTTGGTTTT | GGTATAAGAT | 713460 |
| TTGAATAAGC | TGAAAAGCTT  | TCTTTGCTCT  | TTGTTTGCTC | CAACAAGATA | AGCAATAATA | 713520 |
| TTGTTGTCTA | CAAAAATTGT  | GTTGTCATTC  | TTGTTAAGCC | ATGATCTAAT | TTTTGATCGG | 713580 |
| GCCTTTTTTG | TTCTTACGCT  | GTTTAGCCAT  | ATTACATCCG | GTTTTGAGTC | TTTTGATGTG | 713640 |
| AATATTTCAA | CAATTTGTTC  | GTTTTTAAGC  | GGTTTTGTGA | TTGAGCTTAT | TTTTCCGTTT | 713700 |
| ATTTTTGCAT | AAAGAGCTTG  | ATCTCCAATA  | TCTGTGTGAA | TTATGTATGC | AAAATCAATT | 713760 |
| GAATTTGATC | CAAAAGGAAG  | TTCTACTACT  | TCTCCTTCTG | GGGTGTAAAC | ATATATGAAT | 713820 |
| GTATTCAACA | ACTCTTTGTG  | TATGTCATTC  | ATTGAATATT | GACTTTTGTT | GGCCGATTCT | 713880 |
| TGTTGCCATT | TTTTTATTCG  | GTTTATAAAT  | GAAAGATCAT | CAGCTTTAAG | TTCAATTTGT | 713940 |
| TCTTTATATA | TCCAGTGGGC  | TGCAACCCCA  | TAATTGGCAA | TTCTATCCAT | TTCTTCTGTT | 714000 |
| CGAATTTGTA | TTTCAATAAG  | CTGGTTATCC  | TCAGGTATTC | TTACAGTAGT | GTGTAGTGAT | 714060 |
| TGATATTTAT | TTTCTTTTGG  | GCTTGCAATA  | TAGTCTTTAA | GTCTTCCCGG | GATTGGTTTC | 714120 |
| CACACCCGGT | GAACAATTTT  | TAATATCTCA  | TAACATTCTT | TTTGTTTTTT | GCAAATTATT | 714180 |
| CTTATTCCTA | GAGTATCAAA  | AATTTGAGTA  | AGTTTGTTTG | TTCTtGTTTG | CATTTTTCTA | 714240 |

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| AATATTGAAT AAAAGTGTTT TGATCTTACT GTAATTTCTG CTTC AATTCC GCTTTTTTGA | 714300 |
| AGTTCTTTTT CTATTGATAA TTTTCCTTTG TATAATTTTT TTTCTCTTTC TATTTTTGTT  | 714360 |
| TCAGATAAAA AATTTTTTAT TTCTTTATAA TCTTTAGGAT AAAGATGCTT AAATGAAAGA  | 714420 |
| TCCTCAAGAT ATGTTTTAAG AGATGAGATC CCAAGGCGTT CTGCTATTGG AACGTAAGTT  | 714480 |
| GAAAGGCAAT CTTTTGCAAT CCTGTCTTGT CTGTTTTTGG GCAAATAAGA GAGAGTTGTC  | 714540 |
| ATATTATGAA GTTTATCTGC CAGTTTTATT ATTATTATTC TAATATCATG TGTCATTGCA  | 714600 |
| AAAAACATTT TTGAGATAGT ATTAGCCTCT TTTATGCTTC TTGTTTTATT GTGTAAATCA  | 714660 |
| TGAATTTTAG TTACACCGTC GATTAGGCTT AAAATTTTCT CGTCAAATTC TTTTACTATT  | 714720 |
| TCTTCTTTTT CAACATTTGT ATCTTCAAGT ACGTCATGCA GTAGTCCAGC AATAGTTGCT  | 714780 |
| TTAAAATCTA GTTGAAATTT GGCAAGAAAT AATGAAACCA TTATTGGGTG AATAATGTAA  | 714840 |
| GGCTCTCCAC TTTCTCTATA TTGGCCATAG TGGAGCTGTT CTGCTATTTT TAGAGCTTTG  | 714900 |
| AATATGCTTT TTCGTTCAAA TTCATCTTTG TAAGTATTTT CAACAGTTTT TTTAAAAATA  | 714960 |
| TTTCTAGCTT TTTCAAGATC ATTTATCTTG ATTAAATGTG CAATTTTCGTA TGCTTGTATC | 715020 |
| ATCTCTTTGT CCCAATATCA GCGCCCTTGC TCTCTTTTCA AGATCGTAAA TTGTTTTTAA  | 715080 |
| ATGTGAAAAT CCCTTTTTGA TTGCAAAATC TTTCAAGCTT TTTATTTGCC AAGGAGCCGA  | 715140 |
| TTCTATTATT ATTAATCCAT TTGGGCTAAG CTTTTCTTTT GCTTGGTTTA ATATTTTCTT  | 715200 |
| AGAAATATTA AGCCCATCTT TTCCAAATCC CAAAAGAGCT TTTGTGGGTT CTTTTTTTAT  | 715260 |
| TTTATTTTTT ATTTCTAATT CTCTTTTATT TAAATAAGGA GGATTTGTAA TGATTATATC  | 715320 |
| AAGCTTTCCC TTTATACATT TTAGCAAAT AGAGTGAATT ATTTCTACAA ATTTTCAAG    | 715380 |
| TTTGAGCTTT TTTGTATTTT TTTCAACTAT TTGTAAAGCT TTTGTTGAAA TATCCGAGAG  | 715440 |
| TATTACTTTT TTTCTAATGT AATAGGCAAT CGAAAGCCCT ATGCATCCAC TACCGCAGCA  | 715500 |
| TAAGTCTAAT ATTTTTTTAA AACCATTTTG TTGGATTTGA ATTAAGGCTT CTCTGCTAA   | 715560 |
| ACATTCTGTA TCAAACCTTG GAATTAATAC ATGTTTGTTT AGGCTAAATT CAATCCCCAT  | 715620 |
| AAATTCCTTT CTTTTGAAGT ATGTAGTGAA TAGGAATTCC TTTTCTATT TTATCTATTT   | 715680 |
| GATCAAAAAA AAGTTTTTTT TCTTTTTTTT TTAAGCTTTT TTTTATATTT GCAATTATTA  | 715740 |
| ATCTTTTTTT GGTTTTTTAA ATTAATTCAA GTATTAGTAG TGCTTCTATT GTATCTAAAT  | 715800 |
| TTTTACCTTT AGCATAATTT ATAACCTTCG TTATATTCAT TGCTATATGC TATTGCTTTT  | 715860 |
| TAATTCTTGT TCTTGAAGTG CTATCATCAA AGGATCAAGA AGTGGGTCAA GTTCTCCTTG  | 715920 |
| CATAAATTCT TCTAATTTAT AAAGAGTGAT GTTTGCTCTA TGATCTGTTA TTCTATTTTG  | 715980 |
| AGGAAAATTA TAGGTTCTAA TTCTTTCAGA TCTATCTCCT GAGCCGACCT GTTGTTTTCT  | 716040 |

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| ATTGCTTGAT CTTTGCTCTT GTTTTTTTGA ATCTTCAAAT TCATAAAGCC TTGCTCTTAA  | 716100 |
| TATTTTCATT GCTTGATCTT TGTTTTTATG CTGGCTTCTT TCGTTTTGGC ACTGTACAAC  | 716160 |
| AATTCCTGTT GGTAGGTGCG TTATTCTGAC TGCAGAATCA GTTGATTGA CGTGTTGCCC   | 716220 |
| ACCAGCTCCA GATGATCTGT AAACATCAAT TCTTAAATCT TTTTCATTGA TGTCAATTTT  | 716280 |
| AGTTTCTTCA ATATTAGGTA GCACTGCTAC AGTAGCAGCT GAAGTTTGAA GCCTTCCGTT  | 716340 |
| AGACTCTGTT ATAGGGATTC TTTGTACCCT GTGAACACCG CTTTCGTATT TTAATTTTTT  | 716400 |
| AAATACATCT TTTCCCTTAA TTTCAAATAT TATTTCTTTA AATCCCCCAA GTTCTGTTTC  | 716460 |
| ATTGAAGTTT ATAATTTCTG TTTTCCATTT TTTTTCTCT GAATATTTTA TATACATACT   | 716520 |
| ATAAAGATTG TTTGCAAAAA GAGCAGCTTC TTCTCCACCT GTTCCAGCCC TAATTTCAAT  | 716580 |
| TATTATATTT TTGCTATCAT TTTCATCTTG AGGCAAAAGT AGTATTTTAA TTTGATGTTT  | 716640 |
| AAGATCTTCT TTTTTTTTGT CCAGATCAAT TAGTCTTGT TTTATTAGCT CTTTCATTTT   | 716700 |
| TTGTTGATCT TCTTTTTCCA AGATGGTTTT GGTATCATTG ATTTGGCTTA ATATTTTTTC  | 716760 |
| GTATTCAATT TTTTATAGTAT TTATTTTTTC TAAATATGTA TATTCTTTTA TTATTTTTGA | 716820 |
| ATATTTTTTT TGATCTTTAA TTAGATTTAT ATCTTGTAAT TTTTCTTCTA TCAACTTAAT  | 716880 |
| CTTGCTTGTT GCTGAATTTA ATTTTCTTAA AAGCATTATG GTTCTCCTG AAAGATAGTA   | 716940 |
| ATAGTTTATA TTAATTTTAG ATTTTTTTGT TAGACTTTTT AATAAGTTTT GTGTAGATTC  | 717000 |
| CCATATTTAT GTTTTATTTT AACATTCTTT TTTAAACTG CTTTATTTAA ATAAATAGAA   | 717060 |
| TAAGCGTGAT TAAAAAATC AATTATATTT TTTCATGTTT TTTTATATAA TAAATGTTAT   | 717120 |
| TAAGTTGGAT ATTAAGTTA AATTAGGTTT TGTTGTATTT ATATATAAAT TGAGCTTTAC   | 717180 |
| GTATTATTAT TTGCGGTGTG TTTGAGGTAG TTGAAGTTAT ATCTTTGATA AACCGATTTA  | 717240 |
| AAAGGGGTAT TTATGTTAAA TGAAAAAATT TTGGATGCTT TAGGAGATCT CTCGAGCATT  | 717300 |
| TCTGATGATC AACTTCTTGA TGTCACGAG AAATCAAAAA GAGGGTATCA GTTGATCAAA   | 717360 |
| GAAGAAAGAC TTTCTGAAGC AGAAAGTTA TTTTCTGATA TCCTTGAAAA GGATAATGAG   | 717420 |
| AATAATTATG CTCTGTGTTG GCTTGGAGAC ATTGAAAGGA AGAAGAATAA TTACGATAAA  | 717480 |
| GCAATAGTTT ATTATCAAAA ATGTCTTGTA AAGCATCCGA GCAATAATTA TGCTCTTTTT  | 717540 |
| GGACTTGGAG ATTGTTACAG AAATTTAGAT AATTATAAAA AAGCCACAGA CATATGGGAA  | 717600 |
| GAATATTTAA AATATGATCC TGAGAATATA ACGGTTTTAA CAAGAGTCGC GGCATCTTAC  | 717660 |
| AGGAAGCTAA AAAATTTTCA AAAATCTAAG CAACTTATC TTAAGGTAAT GGAATTAATA   | 717720 |
| CCTGATAATG ATTATGCTCT TGTAGGTATT GGCCATTTGT ATTATGACTT TAAAGAATAT  | 717780 |

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| AAAGAGGCTT TAAAGTATTG GCTTAAAATG TATGAATTAA ATCAATCTAA AGTTGATGTT  | 717840 |
| AGAGTATTAA CTTCAATTGG TAATTGTTAT CGTAAGCTAA GGAATTTAC CAGAGGAATT   | 717900 |
| TATTTTTTTT AAAAAGCTTT AGAAATTTCA CCTAGCAATT TTTATGCTGT TTTTGGACTT  | 717960 |
| GCTGATTGTT ATAGAGGCAA TAAGGAGTAC AAAGAGGCTT TAAAATATTG GCTTGATATT  | 718020 |
| ATCGAAAAAG ATCCAAAAAA TAATTTGGTT CTTACAAGAG TAGGCGATGC TTATCGCTAT  | 718080 |
| TTAAATGATT ATGAAAATTC TCAAATTTAT TATAAAAAGG CCCTTGATGT TGATTTTGAT  | 718140 |
| ATGTTTGCCA TACTTGGA CT TGCTCTTATT CAAAAGGAAC AAGGTAAATA TGAAGAAGCA | 718200 |
| TTAATAGCTA TTTAAAGTTT AATTAAAAAC AATCCTAAAA ATTCAGCATT GTATGTTAAT  | 718260 |
| GCTGCTGAAT GTTATGAAGC ATTAGGGCAG ATTGGAAATG CTGTTGATAT TTTATCAAGC  | 718320 |
| TTTTTACAGC TTGGTATGAA AAATATTGTT GTTATTGACT ACCTTGCGGT TCTTAGGAAA  | 718380 |
| AAAATGGAAT GATGGATTCT TTACTTGAAA CTGAAAAATC TATTTTTTTT GATAAATTAA  | 718440 |
| TAGATACTCA TGTTCAATTTT TATGAATTAA AGAAAAGATC TTTGGATGTC AATTACATTA | 718500 |
| TTAATGAATG TTTTAAAAAC GGCTTTTCTT ATTTTCTTGA TGTTGGATTG CATCCTAGTG  | 718560 |
| ATTTTAATGA CAGAAAAGAT CTTTAAAGCC CTTATTCCAA TGTGTTTTTA ACAGCAGGTA  | 718620 |
| TTCATCCTTT AAATTTAAGT GATCATTTTA AAGATGATAT TAAACAGCTT GAGAAAATTT  | 718680 |
| TGATTAGTGA AAATGTTGTT GCCGTTGGGG AGATGGGTCT TGATTATTTT AAAGCAGATA  | 718740 |
| ACAAGAAATT TCAAATTAAA GCTCTTGAAG AGCAATTGTA TTTGGCTGAT AAATATAAAA  | 718800 |
| GGCCAGTTAT TTTGCATATA AGAGATGCCT ATGATGATGT CTATAATATT GTAAGGTCTT  | 718860 |
| TAAATTTTTT AAATAGGGGT ATATTGCATT GTTATTCAGG AACTTATGAG CATGCTAAAA  | 718920 |
| AATTTATTGA TTTGGGATTT AAAGTTTCTT TTTCGGGCAA TATAACTTTT AAAAATGCAC  | 718980 |
| AACCTTTAAG AATTCTTGTT GGCAAATTAA ATATAAATGA TCTTTTAATA GAAACGGATA  | 719040 |
| GCCCTTTTTT AGCTCCAGTG CCATTGAGAG GCAAAATTAA TTCACCTTTG TTTTtaggat  | 719100 |
| ATGTATGCCT TGAGATTGCA AGGATTAAAA ATTGCTCTGT TAATGATGTT GCTTTTGCAG  | 719160 |
| TATATAATAG CTTTAAAGAT CTTTATTATG TGCATTAAAT TTTATTTATA ATTATTTATT  | 719220 |
| TGTATGGTTT ATTATTAGTT TTAAATTTAA TCATTTTTAT TGTTTATAAA TGTTAAATTC  | 719280 |
| ATATTGAAAA TCTTTTTCAT CATCTTTTGC TATTTTTATC AAATCAGGCT CTTTAAAGGT  | 719340 |
| GATTATATAT TTTAGCTTAA TAATTTTTAA GTCTTTTCTT GTATTGCCAA TTAATACAAA  | 719400 |
| TTTTATATTT TTAGAAAAAG GCGAATTTAG TATCTTTTTT AAAATAATAT TATTATCTCT  | 719460 |
| TAAAGAGAAT AATATTATTG TTTTATTATT AGAAGTAATG AATGTTTGAA TATAGGATAT  | 719520 |
| GTTTTTTTCG TTTATTAGAG TAATATTGAC ATTTTTTTCT TTGCCTTTTT TTTCCAAGTA  | 719580 |

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| TTCAAGGTCT TCGTTATTTA GAGATTTGTC TCTAAATAGT AATGTTTTTTT GCAAATCTAT  | 719640 |
| TGATTTTTTCG TTAAGCAGAA AGTCAATAGA TTTTTTTAGA GAAAATTTTA TTTTGTATAG  | 719700 |
| ATAAAAAATT TTCTCTTTTA GAATTTTCGT ATTTAGAATT TCATTATTTG ATTTATGAGT   | 719760 |
| TAATAGTATT TTTTTTGTTG TTTTAAGCTT GTCTTTTATA ATTTCTAAAT TTTTGTCAAT   | 719820 |
| TATAAATAGT ATTTTCGTTTT TTATGAATGG AGTTGTTTGA ATTTCAAAAA AATATTCAGT  | 719880 |
| TGCATCTGAA AAAATTATTG CATAATTAAA TTGTTTTTCA ATAATAGAAG ATTCTTTGCA   | 719940 |
| TCCTTGTATT GAAATTACTA AGAGCGCTAT TATAGCAAGT TTTTtagggc CAGACATTTT   | 720000 |
| ATTTCTCAGT ATATTTATTG TTAATAGTCA TAGATATTAA AGCCAAACCA AGTATTATTA   | 720060 |
| GTGCATAGAT GCTCATGTTG GTTAAAATTA ATGTTTTTAA AGTTGCAATA AATAATCCTA   | 720120 |
| AAAATAGAAT AGGAGAAAGA ATAATTTTGT ATTTCTTTTGC CGAGTATTTT TGGCATTTTTT | 720180 |
| TAATTTTCTT TTCAAAAATT ATGGCCGAAA AGATTAGTTC TATTGCATTA AGTATTGGTA   | 720240 |
| ATTCTATATA TTCATAAATT CCAAAAATTT TGCTATTTAG AATTATTATT TCTAAGTTTT   | 720300 |
| TAGAAAATAT TAGTCCAAAT GTGAAATATA TAAGTATTGT TAATTTTTTTT TTAAATAAAG  | 720360 |
| AATTTTCATT TAGAGTAAAG AAAAATATAA ATATTAATAG TGGGAATATA TAGTAGTATA   | 720420 |
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| ATGATCTGTA TAGAATAAAT TCTTGAGTTA AATAAAGAAA AGAAAACATT GTTATTGCAA   | 720540 |
| GAAATATTGC TAAAACATGG GCTTGGGTAT TTTTGTGTTG ACTTTGTTTT AGCCGAATAT   | 720600 |
| TCATATAAAT TTTTAATATT AGTGGTAGAC TTGTTAATAA AAATAAACTC ATTGTAAGTA   | 720660 |
| CAATTCTACT TTAAACGTT TTTTAAATCA ATTGATTGAC TAAAACTTG TGTGATTTGG     | 720720 |
| ATATTTGTTT TATCAATATT ATTGATTTTA TTTACTTTTG TAAACATTAT TCCTAGAATT   | 720780 |
| TACTTTTTAG TGAATGTATA ATAAAATTAA TTATTAATGT TAATTATTAA TTGATTTAGG   | 720840 |
| AGTATATATT TTTTAGATGA TAAATAGAAA TGCCAATAGA GATAGGGATA GGTCCAGATC   | 720900 |
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| TGAAAATGGA ACACAAGAGG TTTTATCGAT TGAAGATGCT ATTAAAAAAG CAAAAGAAGC   | 721020 |
| TGGACTTGAT TTGGTTGAGG TTTCTCCTAA TGTATCTCCT CCGGTTTGCA AGATTATTGA   | 721080 |
| TTATGGAAAA TATAAATTCC ATCAAGAAAA GCGTCAAAAA GAGCAAAAGA AAAATCAAAA   | 721140 |
| AGTAATTAAG CTTAAGGAAG TCAGAATGCA GCCCAAGATA GATGCTCATG ACCTTGATTT   | 721200 |
| TAAATCAAAA AACATTTTAG GTTTTTTAAA AGATGGCAAT AAGGTTAAAG TTACAATAAG   | 721260 |
| ATTTAGAGGT CGTGAAGTTG CTCACACATA TTTAGGATAT GGTATCTTAA ATAGCATTCT   | 721320 |

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| AATGTTTTTA | ATTGTAGCGC | CTAAGTTTAA  | AAAATAAATA | TTAAATTAAA  | GGGGAAGAAA | 721440 |
| TGGCAAATAA | AATGAAAACA | CGCAAAAGTG  | CAAAAAAAG  | GTATTCTTTT  | ACTGTAAACG | 721500 |
| GTAAAGTTAA | GTATAAAAAA | CAAAATTTAA  | GGCATATTTT | GACAAAAAAA  | TCTTCTAAGC | 721560 |
| GCAAGAGAAA | TTTAAGGAAA | TCGGGCAATC  | TTTCTTGTTT | TGAAGTTAAA  | AGAATTAAAA | 721620 |
| CTTTATTACC | TTATGGTTAA | AATAATTTTA  | GGAGATAGAT | ATGGCTAGGG  | CTAAAAACGG | 721680 |
| CACAGTTCAC | GTTGCAAGGC | GTAAGCGAAT  | TTTAAAAAAA | ACAAAAGGAT  | TTTGGGGTAC | 721740 |
| AAAAAAGAGC | AATTATAAAA | AAGCTAAGGA  | TACCTTGAGA | AAAGGTATGA  | TGTATGCCAC | 721800 |
| AAGAGATAGA | AAAGTTAGAA | AAAGAGATTT  | TAGGCGCTTG | TGGATTTCOA  | GAATTTCCGC | 721860 |
| TGCTTTAAGT | GATACTGGGG | TTACTTATTC  | AAGATTTATT | GAGGGTTTAT  | TGAAGTCTAA | 721920 |
| TATAAAAATT | AATAGAAAAA | TTTTGTCTAA  | TTTAGCAATT | GAGGATGTTG  | AAGCTTTTAA | 721980 |
| AAAAATTGTT | TTAGAAATAA | GAAGATGAAA  | AATCAAAGCT | CCTGGGAGGT  | TTAATTTTAA | 722040 |
| GAATTAGAGT | TATTTTTTTG | CGACATCTCA  | TAAAATTTAG | GAATTTGAAT  | ATTTTTAGTC | 722100 |
| AATGATAGCC | AAAAGCAATT | CAGAGGTTAA  | GAATAAAAAT | TCCGCCTTGA  | AAAATAGCGC | 722160 |
| TAAATAAAAA | TGTTCTTATG | TTGGCTTTTT  | GGGAGTTTAA | TTTATTTTAA  | GGATTATTAT | 722220 |
| TGTGCAGCTT | ATTTCTCTTA | ATAATATTGA  | AAAGCAAGAG | AGTTTTATAT  | ACTATAGAAA | 722280 |
| TGTATATTTT | GCTGATGTTA | TTTATAAGTA  | TAATGATATC | TTAGAAATCA  | AAAAAGTCAA | 722340 |
| GTTTGTAATT | GAAGCTACGC | CCTTAGGAGA  | AAAGCATGTC | ACTATTGATT  | TTATAGATCT | 722400 |
| TTTAAATTAT | CCTGTTTTAA | AACTAATGGT  | TGCAATTAAA | AGGCGTGTA   | TCGATTTGGA | 722460 |
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| TCCAAATCTT | TTTTTTATCC | TTTGCCAATT  | GGTAAAATAT | TTGTTTTAAG  | TGGTGACATG | 722580 |
| GGATCTGGAA | AACTAGTTT  | TTTAAAGGGA  | CTTGCCCTTA | ACCTTGGAAT  | TTCTTATTTT | 722640 |
| ACAAGTCCAA | CTTATAACAT | TGTTAATGTT  | TATGATTTTA | TAAATTTTAA  | ATTTTATCAT | 722700 |
| ATTGATTTAT | ATCGGGTGTC | TTCTTTGGAA  | GAATTTGAGC | TTGTTGGGGG  | ATTGGAAATA | 722760 |
| CTTATGGATC | TTGACTCGAT | TATTGCTATT  | GAATGGCCAC | AAATTGCTTT  | GAGCATTGTT | 722820 |
| CCAAAAGATA | GATTATTTTC | TTTAACTTTT  | AAAATAGTAG | GTTTCAGGCAG | GGTTGTAGAA | 722880 |
| CTTAATGGTT | AATACACTTG | CATTTGAATA  | TTCATATAAA | GCATTAATAG  | TTTATTGTAG | 722940 |
| AATTAATAAT | AATAATTTTT | CATTGGTTAA  | ACTTAAATCA | AATTTAAATT  | TTAGTGTTC  | 723000 |
| AAAAATTTTC | AATGATTTTG | TAATTA AAAA | TAATATCGAT | CTTAATCAAA  | TTGAATTAAT | 723060 |
| TATAAATTCT | TGTGGTCCTG | GTTCTTTTAC  | TGGTCTTAGA | ATTAGTTTAA  | GTTTTGTCAA | 723120 |

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| AAATTTAGTT | GAAAATAACC | CCAGTGCAGT | TGTATTAACT | TTTACTGCAG | GTAAATATTT  | 723240 |
| TCTTGGAAT  | TATAAAAATT | GCAAATTGAT | AGGGAAGATT | TTGTGTTTTT | CTAAGAAAGA  | 723300 |
| TTTGTTTGAA | TATTTGAATC | AGATTGATCC | AAATTCAGTG | CTTATTGGGA | ACAATCTTGA  | 723360 |
| AGATGTTTGC | AAAGAGTGCA | ATTATAAATT | TAAAATCATT | GAAAATTTAA | GTTCGTTTGG  | 723420 |
| AAAAATTTTA | ACAGAACTTG | GGGTAGCTAA | ATACTTAAAA | AATCGAAAAG | GTGATGATAT  | 723480 |
| TTTGTGAGGA | CCTCTTTACA | TAAGACAAAG | TGATGCAGAG | GTTAATTTTC | ATTCTTGAAA  | 723540 |
| TAATGATTAA | AAAGGCTTTT | AATTTTGCTT | ATATTGTGTT | TGTCTTTTAG | TAGTGATTTT  | 723600 |
| TTGTTTTCTT | CTATAATAAA | TTCATAAATT | TCAGATCTAA | ATATTTTAAT | GTTTTTCAGGG | 723660 |
| GCTTTAATTG | CTATTTTAAC | AGCATCCTTT | TTTATTTCTA | ATATTAAAAC | CTCAATATCA  | 723720 |
| GAATTTATTT | TAATGCTTTC | ATTTGCTTTT | CTTGACAATA | CTAGCATCTT | TATTCCTTGA  | 723780 |
| AAACTTTATG | GTGTAGTGAG | TATTTTTCAT | TTGTGCATAT | AGCTTGTTTT | CCAAGTAATT  | 723840 |
| TTTTTTTGTT | TATTATGATT | GGTGCCTTTA | GGTTAGCTGT | AATGTCTTTA | TAATCATTGA  | 723900 |
| CATGCATATT | GATTATGCAT | AGTATAACTT | TTTCATCTTC | TTCTTTTGCT | TTAATGTCCG  | 723960 |
| ACCAATCTTT | TTCCTGGATA | TTTGGTAAGT | ATTCGCTTAA | AAAATTGAAA | GGAGATGTCA  | 724020 |
| CCAAAAACT  | TACGTCTTTA | TTGATGGATT | GCATAATAGA | AAAAGGCTTA | TACTTAGAGT  | 724080 |
| CTTTTATTAT | AAATTTTTTA | ATGTTTTCAA | ATCCAAGTAT | TCCCTCGGGA | AAATCAAATT  | 724140 |
| CTATACTTTT | TTCATCTATC | ATTCTATTTT | ATAAAATCTA | ATAAAGTCGT | TTGCATTATT  | 724200 |
| TTAGCAGAGA | TTCCTATAGA | CACTTGATAA | GCTAAGCTTG | CCATATTTAA | ATTAGTTATT  | 724260 |
| GCTTTTGTTA | CATCAAGATC | TGTATATTGA | ATCATATCTT | CTTTCATATC | TGCAGCTTCT  | 724320 |
| TTGCTTATTC | TTTCATAGCT | TCTATCAAGT | CTATTTTCTT | TTGCTCCAAG | ATCTGCAACG  | 724380 |
| GATATAAGTA | ATCTTTTTTA | GCTTTCGTCA | ATTCTGCCA  | GACTTCTACT | TCCAACAAGC  | 724440 |
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| ATCATTTTTT TGTCACTGA TTCATAAGTT CCGCTTGCTC CTTGAATTGC AATTTCTTTA  | 725160 |
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| TTAGATCTGT TAAATCTTTT AATATTTGAG ATTGGCTTTC TTTTGTGATT TCTGAAATTT | 725640 |
| GTCCTTTTAT TGCTATATTT GATGCTGTAT TTGCAAAGTA ATCATTTAAT GTTAAATTTT | 725700 |
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| TCGATTTAGG CGCCAATTTG TCTGTTGTGT CAATATTTTT ATAATCATAA GCTCCCTCAG | 725940 |
| GTCCAGATGC ATTTAATATT CCTGTATATT TTGTTAGAAA TGATCCAGAA TCTTCTATAT | 726000 |
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|------------|------------|-------------|------------|------------|-------------|--------|
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| TTGATTATGA | GGTTGATGAT | CATGAGATTA  | GTATTCCTTT | TGACTTAATT | TTAAGTAGCA  | 728520 |
| AGGCTGAACT | TAAAAAATTA | ATTAATTCTT  | ATAAGGTTTA | TGAAAAAATT | GATAATGGTG  | 728580 |
| TTGCTTTGGT | TTTAGCAGGT | TCTGTTAATG  | CTGGAAAGTC | GTCGTTATTT | AATTTATTTT  | 728640 |
| TCAAAAAAGA | TAGATCAATT | GTTTCTTCAT  | ATCCAGGCAC | TACAAGAGAT | TATATTGAGG  | 728700 |
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| TGATTAGTAC | TAAAAATTTA | GAAGGAATAG  | ATATTCTTTA | TGACAAAATA | AGGGCTTTAA  | 729060 |
| TCTCTTATGA | GAGAGTCGAG | ATTGGACTTG  | ATGATATAAT | AATATCATCA | AATCGTCAGA  | 729120 |
| TGCAACTTTT | GGAGAAAGCT | TATGCTTTGA  | TTTTAGATTT | ACTTAGTAAA | ATTGATCGCC  | 729180 |
| AAGTAAGTTA | TGATATGTTA | GCATTTGATG  | CTTATGAGAT | TATCAACTGT | TTAGGGGAAA  | 729240 |
| TAACAGGAGA | AGTTAGTAGT | GAAGATGTTT  | TTGACAATAT | GTTTAAGAAT | TTTTGTTTGG  | 729300 |
| GGAAATAAAT | ATGGATTTTG | ACGCAATTGT  | TATTGGAGGG | GGGCATGCGG | GGATTGAAGC  | 729360 |
| TGCTCTTGCT | CTTTCAAGGT | TGAATTTTAA  | AACTTTAATG | ATTACTCAAA | ATTTAGATAC  | 729420 |
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| AGAAATTGAT | GCTCTTGGTG | GTGAAATGGG  | TCGTATTATT | GACTTTAGCA | TGATTCAGTT  | 729540 |
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| TCAGGATACA | GTTGTGGATT | TTCTTCTTAA  | TTCAATGAGA | AATGAAATTG | AAGGTGTTGT  | 729720 |
| TACAGAGAGA | GGCAATAAGT | TTAGATCAAG  | CGTTGTGGTA | CTTACAACAG | GGACGTTTCT  | 729780 |
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| TGCTTATGGG | CTTGATAAAA | CTTTACTTGG  | TCTTGGATTT | GAAATGGGTA | GGCTTAAAAAC | 729900 |
| GGGCACTCCA | GCAAGAATTC | ATAAAAAAAG  | TGTGGATTTT | TCAAAGACGG | AGGTTC AATT | 729960 |
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| TTCATGTTAT | GTAACCTATA | CTAATAAAAA  | AACTCACGAA | ATAATTAGCG | AGAATATGCA  | 730080 |
| CCTATCACCT | CTTTATTCTG | GTGAGATTGT  | GGGTAATGGT | CCAAGATATT | GTCCTTCTAT  | 730140 |
| TGAGGATAAA | ATAGTAAAAT | TTAAAGATAA  | AGATAGGCAT | CAAATTTTTA | TTGAGCCTGA  | 730200 |

|             |             |            |             |            |             |        |
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| AGGTTTTAAT  | ACTGAAGAAA  | TGTATCTTAA | TGGTCTTAGC  | TCTTCTTTGC | CTGAAAATAT  | 730260 |
| TCAGCAAAAA  | TTGATTAACA  | GCATTGAAGG | CCTTGAGCAT  | GCTGTTATTA | CAAGGCCCCGG | 730320 |
| TTATGCTGTT  | GAGTATGATT  | ATATAAATCC | AATTGAAC'TT | TACCCAAATC | TTGAGAGCAA  | 730380 |
| AAGAGTCAAA  | GGGCTTTT'TA | TAGCGGGGCA | GACTAATGGC  | TCTTCAGGGT | ATGAAGAAGC  | 730440 |
| AGCAGCTCAA  | GGGTAAATGG  | CTGGAATTAA | TGCTGCTCTA  | AGACTTCAAA | ATAAAAAGCC  | 730500 |
| AATGATTTTA  | ACAAGAACTA  | GCTCTTATAT | TGGAGTTCTT  | ATTGACGATC | TTGTTACCAA  | 730560 |
| AGGCACTAAA  | GAACCTTACA  | GAATGTTTAC | CTCTAGAGCT  | GAGCACAGAC | TTAATTTAAG  | 730620 |
| GCATGATACT  | AGTGACAAGC  | GTTTGATTAA | GATTGGATAT  | GATCTTGGGC | TTGTTGATGA  | 730680 |
| GAAGAGGTAT  | TCAAGATATC  | TTTTTAAAGA | GAGCAGGGTT  | GAAGAGATAA | AGGAGCTTTT  | 730740 |
| AAAGCAAAGG  | CGCCTTAGTT  | TAAAAGATGT | TGTTGATGAA  | CAATTAAAAA | AACATGTTAG  | 730800 |
| TAAAAGATTTT | TACCATATTT  | TAAAAGATCC | TTCTATTAGT  | TTAGATAATC | TTATAAAGAT  | 730860 |
| TGATCCAAGT  | TTAAGTGATT  | CAAAGTAAT  | TTTAGAGCAA  | GTTGAATTAG | ATGTTAAATA  | 730920 |
| TGAAGGCTAT  | ATTAATAGAC  | AAAAGGATTT | AATTAAAAGG  | CTTGATAATC | TAGAGCTTGT  | 730980 |
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| AAATTTTCT   | TTATGATAAG  | TGATATTGAA | TTTGCTTTGT  | CAGAACATAA | TTTTTCAGTTT | 731220 |
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| GTTGGAAGTG  | GTGCTGGATT  | TCCGGGCATT | ATTTTGGCTA  | TTTTTGACTC | TTCTAGAAAA  | 731460 |
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| TTAAGAGTAG  | ATAGAAATTT  | GGTTTTGCTT | TACAGATAAT  | ATTATTATCG | TTTAAGTTCA  | 731820 |
| GTTTATATTT  | TAGAGTGATT  | TTGACTAGGA | GTATTATGAA  | GAGTGGTTTT | CAGATAGATT  | 731880 |
| CAGAAGTAGA  | GAATGCATTA  | CATTTGATAA | ATAAATTTAG  | AAGAGAGGTT | GCAACCAGAG  | 731940 |

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| TTCTTGATCT | TGAATTTAAG  | CGCATACAGT | TTACCCCAGA  | TCTTTTGCCA  | TCTGACCTTA  | 732120 |
| CTGGTAATAT | GGTTTATAAA  | AGTGCTACAG | GCAC'TTTTAA | AGTTAGAAAA  | GGTCCAGTAT  | 732180 |
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| CAGAATCCCA | ACTTGATAGA  | TTTTTATTAA | AAGTTAATGT  | TCATTATCCA  | TCAGTGCAAG  | 732420 |
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| TTGATGACAA | GATAATGCTT  | TATATTGTTA | CTTTAATCTC  | GGCATCTCGT  | GAAAGGGATA  | 732600 |
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| GTTTATTAAA | GTGTGCTCGT  | GTTAATGCTC | TTTATGAGGG  | GAGAATATTT  | GTTTTACCAG  | 732720 |
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| TTCTGATGAT | GCTAGATTTA  | TTGATTGGAA | TGTGAGCTCA  | AAAGCCGACA  | GCATTTTTTTC | 733080 |
| AAAGGTTTTT | AAAGAGGATA  | GGGGAATGAA | TCTTCATCTT  | CTTGTTGATA  | ATTCAC'TTTC | 733140 |
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| TGCACATATG | GCATTTTTTA  | ATAATGATAA | AATAGGTGTT  | ACTTTTTTTTT | CAAGTGGAAC  | 733260 |
| AGACAAGTTT | ATACCCTCTA  | GCAAAGGTCA | TTCACACTTA  | GGATTGATAT  | TAAGTGAAAC  | 733320 |
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|            |             |            |             |            |            |        |
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| TTTTGTTGTT | TGGGACATGA  | TAAGAAGTGC | TATGGGTAGT  | GTTTCTGATA | ATGTGATAGT | 742680 |
| GTCAATGCAA | GATTATATTA  | ATTTAGGAGA | TAAATTTAGT  | GCAAATATCC | CAAAAAGCAC | 742740 |
| TTTAGATAAT | TGTATTTTTA  | GATTATTAGA | AAGTGATTTA  | GATGCTACTT | TGAGTCAAAA | 742800 |
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| TAAAATTTAG | GTATTTTTTA  | ATTTAATTGA | GATCTAATTG  | TGCAAATAAA | AATCACtGTT | 742920 |
| ATTTAATATT | TTTTCATTTG  | CAAGTATCAT | GTATTAATGT  | ATATGAAAAT | TTTTATCTAT | 742980 |
| TGGGTAGTTA | TTTTCTTCTT  | TTCTGTTTTT | AAGGTTTTTA  | GTATATATTC | ATTAACCGAT | 743040 |
| GAAGAATTTT | TTAAAAAATA  | TAGTTTATTT | TTTGTTTATA  | AAGGATTTTT | AAGTAAAAAT | 743100 |
| GTTAATGGGA | AAATAACCAA  | AGTTCAAGTC | AATGGGATAA  | ATTCTAGGTG | GGTTTACCCT | 743160 |
| TTTTATAAGC | TTGTTCCCTAG | TCGAATTACT | TCTATTTATG  | AGGATGTTTA | TTCTTCAAGT | 743220 |
| TCATTTTTGA | CTACAAGTAA  | CAATCTTTAT | GTTTCTTATG  | ATTATTCAAA | AAATTTTAGA | 743280 |
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| CAAGGAGATT | ACAAGCGTAT  | TGCTATTGGA | ACTGCGATTC  | ATGGTATTTA | TCTTAGTGTT | 743400 |
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| TCTCCTGCTA | CTTGGGAATA  | TAATATTTCT | ATCGCAAAAG  | AAATTCAATC | TTTTGGAGTT | 744240 |
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| GAAAACGGGA | GAAGGAAAAA | CTCTCTCCTC | AGTTCAAGCG | GCGTATTTAA | ATAGTTTAAC | 754680 |
| AGGAGATGGG | GTTATTATTG | TTACTGTTAA | TGACTATCTT | GCAGAACGTG | ATTCCAATTG | 754740 |
| GATGAAGCCG | GTTTTTGATC | TTTTGGGTGT | TAGCGTGGGG | GTTGTTCTAT | CTAATATGGA | 754800 |
| TTATGAGCTA | AGAAAGGCTC | AATATGCTAA | AGATATTACT | TATGTTACAA | ATAATGAACT | 754860 |
| TGGATTTGAT | TATCTAAGAG | ATAATATGCG | TTATGACTTG | AATGAAAAAT | CCTTGAGAAA | 754920 |
| GTTTAATTAT | TGTATTATTG | ATGAAATTGA | TTCTATTTTG | ATCGATGAGG | CAAGAACTCC | 754980 |



ATTGATTATT TCAGGGCCTA CTGAAGGCAA CACCAATGCT TATCTTGAAG TTAATTCTCT 755040  
TGTATCTTTT TTAAGAAGAT GTTCCAAGGA TCCCAAAACA GGTGATTATC CTTTAGAAAT 755100  
AGACGACCTT GATGGTGATT ATACTGTTGA TGAAAAAGCC AAAAGAATTT CTTTTACTGC 755160  
CAAAGGGCTT AATAATCTTG AACAGCTTTT AGTTTCTAAA GGCATTATTA GTGGGTCTAT 755220  
GTATACCGAT TCAAATTTTA ATTATGTTCA TTATATGACT CAAGCCTTAA AAGCACATTT 755280  
GCTTTTTTTA AAAAATAGAG AGTATATTGT TGGTGATTCT GGGGTTGAGA TTGTAGATGA 755340  
ATTTACTGGG AGAGTTTAA CAGGGCGAAG ATATTCAGAT GGACTTCACC AAGCTATTGA 755400  
GGCTAAAGAA GGAGTTAGAG TTGCTAATGA AAATAAGACT ATGGCAACTA TTACTTTTCA 755460  
AAATTTATTT AGAATGTTTG ATAAAATTTT TGGCATGACA GGTACAGCTG ATACAGAAGC 755520  
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TGAGAGTCTT GGTTCATTG AAAATATTAG TTCTCTTGAT TTAAAGGCTA AGCTAATGCA 756540  
AATAGCAAAA GCAAATTTAG ATGAAAAGGA AAATTTGATT GGTAGAGATC TTTTAAATGG 756600  
ATTTTTAAGA TATGAATATT TGAAAAATAT TGATTTTAAA TTTCAGGAAC ATCTTGCAAA 756660  
TTTAGACTCT TTAAGAGAGG CTGTTTATTT AAGGTCTTAT GCCAATAAAA ATCCAATCAC 756720

|            |            |             |            |             |             |        |
|------------|------------|-------------|------------|-------------|-------------|--------|
| AGAATACAAA | GAAGAGGGAT | TTTCAATATT  | TAGCGAGCTT | ATTAAAGATA  | TTAAAGTTTC  | 756780 |
| TACCATAAGG | CGTGTTCTTC | AATTAAAATT  | GGATAGCAAT | TCTTCCGATT  | TTAAGTCAAC  | 756840 |
| AAAGAAGTCT | AGGAATGTTA | AACCAATTCA  | TAAAGAACTT | TCTGGAATTG  | TTATTAATGA  | 756900 |
| GAATAAAAGC | GCTTCTAATG | TTCAAGTGGT  | TAGAAGTTCT | CCTAAAATAG  | GCAGAAATGA  | 756960 |
| GCCTTGTTAT | TGTGGAAGTG | GGAAGAAATA  | TAAAAATTGT | CATGGCAAAA  | GTAAAAACAG  | 757020 |
| GAGGTTTTTA | TGTTTAAGCT | GCCAGAACTT  | GGTTATGATT | ATGATGCTGT  | TGAGCCTTAT  | 757080 |
| ATTGATGCTA | AAACTATGGA | AATTCATCAT  | AGCAAGCATC | ATAATGGTTT  | TGTAATGAAT  | 757140 |
| TTGAATTCTA | TTTTGGAAAA | AATGGGGAAA  | ATTCATTTAA | CAGATGTGTC  | AAACATATTA  | 757200 |
| AAAAATATTC | ATGATTTTCC | AGAAGAATTT  | CAAAC TTAA | TAAGAAATAA  | TGCTGGTGGT  | 757260 |
| TATTCTAACC | ATACTTTATA | TTTTAGAACT  | TTAAGGCCAG | GAAACAAGGA  | CAATCTTTTT  | 757320 |
| GAAAAGTTTA | AAGATGATAT | TAATGCAGCT  | TTTGGAAGCC | TAGACGTTCT  | TAAGGCCAAT  | 757380 |
| TTGAAAGATA | CTGCAATGAA | AATTTTTTGA  | AGTGGTTGGG | CATGGTTAGT  | ATTGTGTCCT  | 757440 |
| GAGAGTGGCC | TTAAAGTGAT | TTCAATGCCT  | AATCAGGATA | GTCCTTTGAT  | GAATTCTTAT  | 757500 |
| AAGCCGATTT | TAGGTATTGA | TGTTTGGGAG  | CATGCCTATT | ACCTTAAATA  | TCAAAATAGA  | 757560 |
| AGAATTGAAT | ATGTTGATGC | ATTTTTTAAAG | GCTTTTAAAT | GGGAAGAAGT  | TTCAAAAGTT  | 757620 |
| TACAATGAAG | TGATTAATTA | GCCTTTACTT  | TATAAAGATT | TTCAATTCTA  | TATTTAGTAT  | 757680 |
| TTTACTTTAA | AATTTTAAGC | AATTTATTTT  | AAGTCATTAT | TAAAGTTTTT  | TCTTTCTATA  | 757740 |
| TCATTAAAGT | ATTCTACTGT | TCCAAC TTTT | AATTCGTAAG | TTGCATTTTT  | GTCAGATACT  | 757800 |
| ATGATTGCAT | TTTTATGTAG | TTGGAGTGCA  | CTAATTGTCC | ACATGTGGTT  | AACGCC TTTT | 757860 |
| TCAATGGCAT | GCTTTAATGC | TCTTGCTTTG  | TTATGTCCAT | TTACTATTAT  | TAAAAC TTTT | 757920 |
| TGTGAATCCA | TGATCGTTCC | AATTCCAACA  | GTTAGTGCAT | TTTTGGGAAC  | TTTGT TTACA | 757980 |
| TCGCCTTCAA | AAAATCTTGA | ATTAGCAATA  | ATTGTATCCT | GGGT TAAAGT | TTTAAT TCTT | 758040 |
| GTTCTTGATG | TTAAGGAGGA | GCCCGGCTCA  | TTAAAAGCAA | TGTGACCATC  | GGGGCCTATT  | 758100 |
| CCCCCTACAA | AAAGCATTAT | TCCCCCGAAA  | GATTTGATTT | TTTTTTTATA  | TTCTTCGCAT  | 758160 |
| TCTTTTTTGA | GATTTGAAGC | ATTTCCGTTT  | AGTATATTTA | TGTTTTCTTT  | TTTAATGTCA  | 758220 |
| ATGTGGGAAA | AAAAATTGTT | CCACATAAAT  | GAATGGTAAC | TTTCAGGATG  | ATTTTCTTCA  | 758280 |
| ATTCCTATGT | ATTCATCCAT | ATTAAAAGTT  | ATGACATTTT | GAAATGAAAT  | TTTTTTATTT  | 758340 |
| TTATTTAATT | CAATTAAGTT | TTTGTACATG  | CCAATCGGAG | AGCTTCCTGT  | TGGAAGTCCA  | 758400 |
| AGGATAAATG | GATTTTCTTT | TGTTGGGGAA  | AATTCATTAA | TTTTTTGTGC  | TACATGATTA  | 758460 |
| GCCGCCCAT  | TTGATATGTC | TTCGTATGTG  | GGTCTGATTA | TTAATCTCAT  | TGAGATCTCC  | 758520 |

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|------------|-------------|------------|------------|------------|------------|--------|
| TTAAAATTGA | TTAAAGTTAG  | AGATTGTAA  | AAATTATTTT | AGATTCTATC | ATTGTAACT  | 758580 |
| TTAGATTAAA | ATCTTTATCT  | AGGACATTGA | GGTTTGCATC | ATATCCATGA | CATATTAAGC | 758640 |
| CCTTTTATC  | AATATTGAGA  | ATTCTTGTTG | GATTGTAAGA | GCTTGCTTGA | ACAGCATCGC | 758700 |
| TTAAGCTGAA | ACCAAATTCT  | ATTAAATTTT | TAAGACCTTG | TATCATTGTG | AGTGTTGATC | 758760 |
| CAGCTATTGT | GTTGCTTTTC  | ACGCTATGGA | ATAATCCATC | TTCTGCAATA | TAAACTTCGT | 758820 |
| CTCCGTTTGC | AATTAGTTTT  | CCACAAGTTT | GACAATTCGG | AGTAAGTCCG | TCAGTTACAA | 758880 |
| GGACTATTTT | ACTTATATCT  | TTAAGCTTTC | TAAGCATTA  | AATTAATTTT | GGGTGTATAT | 758940 |
| GGTGCCATC  | TGCAATAATT  | TCGCAAGAAA | CATCGCCGTG | TATTAACACC | GCTCCTATTG | 759000 |
| CATTTGGATT | TCTGTGGTCA  | AGTTTTGACA | TTGCGTTGAA | AAAATGGGTT | GTATGAAGTA | 759060 |
| TTCCAACCTG | AAATCCTTCT  | ATCATGTTTT | CATATGTTGC | ATTTGTGTGT | CCCGCTTGAA | 759120 |
| GGTTTATGTT | GTTTTCAAGG  | CAAAATATTG | CAAGCTCTCT | CATACCCTTA | AGCTCAGGAG | 759180 |
| CAACAGTCAT | TGTGCTTATA  | TGTGTTTTTC | TTTTGCCGTT | TGATCCTGTA | AATACTCCAC | 759240 |
| CAGCTGCATC | TATTAGTTTT  | TGCATAACTT | CAATACTAGG | TTCATGAAGA | TAAGAACTG  | 759300 |
| GATGAGCTCC | TTTTTTTTTCA | GGAGAGAAAA | ATGGTCCTTC | AAGGTGAAGT | CCCAAATTT  | 759360 |
| TAGCTCCCTT | TTCTTTACCA  | ATTGCTGCTA | TGCAAGCTTT | TATTGTTTTA | ATCATTTTAT | 759420 |
| CTATTGGTCT | TGGGTAAAGG  | GTTGGTAAAA | ATCCTACTAC | ACCGTATTGT | GCTAAATGTT | 759480 |
| CTGACATTTT | AAGTATCGAT  | TCTGTTGAAC | ACTGGTCTGT | CCCATGACCG | TGAAATCCAT | 759540 |
| GAATATGATT | GTCGTAAAGT  | CCGGGAGTTA | TATAATTGCC | TTTTGTGTCA | ATCATTTGGT | 759600 |
| ATTCTTCGAG | ATCCATTTTT  | TTAAGTCTGT | CAGACGTTAC | AATATCAAAA | ATTTTATTAT | 759660 |
| CTTTAATTAG | AACCGCTGAG  | TTATCTATTT | TATCATTTCC | AGTTAAAACG | GATTTTGAGT | 759720 |
| TAAATAAGCA | AAAATTTGGC  | ATTTTTTATT | TTCCTTTTAT | TTATTTTATT | TTACTATAAG | 759780 |
| CATTAATCTT | TTTTAAAGCT  | TATATTTTTT | ATTTTAAAGT | GTTTGATGC  | TTAAGAATTC | 759840 |
| ATGTTTTTAA | AATTTATTTT  | ATTTTTTTAA | TTATACATTA | TATTTTGTTT | TCAATTTTAT | 759900 |
| TAATGATATA | ATTTACCCCG  | GAGGGCAATA | TTTTGGCATC | AGGATTTTTT | GTTTCTGGAC | 759960 |
| TTGAGAGTAA | GTACAATACT  | AAAGAAATTC | GTGAATCCAT | GCTTAAGTCC | GATAAGGCTA | 760020 |
| AAATTGATTC | TTCTTTTAAG  | AAACTTGAAT | CTTTAGAGCA | AGAGAAAAGT | GCCTGGCAGT | 760080 |
| TAATTAATAG | AAAAATCTCT  | ACTTTAAATT | CTCTTGCAAA | AGAACTTACA | TCACTCAACA | 760140 |
| GTCCTTTTAA | TCTAATGTCA  | GGAAATCTA  | GTAATAGCGA | AGTTTTAACT | TTGTCTACTA | 760200 |
| GATATGGATC | TAAGAATGAG  | ACTCATAAAT | TAATTGTTGA | TCAAATAGCG | TCAGCTGATG | 760260 |

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|------------|------------|------------|------------|-------------|------------|--------|
| TGTTTTTGTG | TTCAAATTTT | GATCCTAAAA | AAGTTACAAT | CCCAGAGGGA  | GATTATATAT | 760320 |
| TTTTAGTTGG | CAAGAAAGAA | ATTAATGTAA | AAAGTAATGG | CAACATTGAT  | TTACTTGTGA | 760380 |
| AGGATATTAA | TAACAAGGGA | AAGGGCTTTT | TATCTGCAAA | AATAGTGAAA  | AGTGATAAAA | 760440 |
| ATGGAAATAG | TCGTTTTGTT | TTGCAATCCT | TAAAGGAGGG | CAAAGAAAAC  | AAGCTTGTTA | 760500 |
| TCAAAGGGGA | GGGATTGTCT | TTTGCTAAGC | AAATTGGAAT | TTTAAGTGAG  | CTTAAAACCA | 760560 |
| ATTTTAATCC | TAATCTTTCA | GATATTGTTG | TAAATCAATC | TAGCAGCAAC  | AATAAACTTG | 760620 |
| CTTTTGAGAA | CAATGGTCTT | GTTTTAAATC | CGCTTTCAGA | AGTATCAATT  | GAAATTCCTG | 760680 |
| AAGATATTGA | AATTACATCT | AGGAGTAAGA | TTAAATTTGA | AGTTAAGTAT  | TTTGATACAG | 760740 |
| GCTTGGAAGA | GCCTGATAGT | AAGATTATTT | TTAATCCCGG | AGGGGCTACA  | TTTAAGGATG | 760800 |
| CAAAAGTTGA | GAGTGAAGAT | AGTGTAGTTG | ATCTTGATC  | TGATTTAAAA  | ACCCCTTTGG | 760860 |
| AAAAAAAATA | TATTCAAATG | AATATGGTTA | AAATATGTAG | CAAGGAAGGT  | TCTTTGGAGC | 760920 |
| TTCTTTAAT  | AAATATTTCA | AATAATTTTG | AAGAAGTTGA | AGTTGATGTT  | GGAGCTCTTT | 760980 |
| CTAATTTGGA | AGAAATAAAT | ATTGAAAATA | AAGCAAATAA | TAAAGTAATT  | GTGATTAGCA | 761040 |
| ATGTTGAAAT | TTTTGATCCA | AAAAATAGAG | ATGGTCATTT | GCCAATAAAT  | GCTAAAAGTT | 761100 |
| TTGCTGAAAA | TGCAAAAATT | AAATTTGATG | GAGTAGATGT | TGAGAGAGAT  | TCAAATGTTA | 761160 |
| TAAATGATTT | GGTTCCAAAT | GTGACATTAA | GTTTAAAAAA | ACCCTCAAGT  | GATATGGTTG | 761220 |
| AGGCTAAAAT | TGAACCTGAT | TATGAGGGGA | TTAAGAGGGT | TCTTTTAGAT  | TTTATTGGTG | 761280 |
| CTTATAATGA | GGTTCTTGCT | GAGATTAATA | TTGTAAGCTC | TAATGAAGAT  | CAGCCTAATA | 761340 |
| ATCAAAAGTC | TAATATAGTT | GAAGAGCTAA | CTTATCTTAG | TGATTCTCAA  | AAAGAAGAGG | 761400 |
| CTTATAAAAA | TTTAGGTATT | CTAAGGTCTG | AATTTTATT  | AAAAAATCTT  | AAGTCCAAGC | 761460 |
| TAGAGTCAAT | AATTTTAAAG | CCTTATGTTA | CTAGTGATCC | TAATTTTCA   | ATAATTAATC | 761520 |
| AGATGGGAGT | TTTTACAAAT | TCCATTTCTT | CTTCTGGTGG | ACTTTCTAGA  | TATTTAAGAC | 761580 |
| TTGATGAGAA | AAAGTTTGAT | GAATCAATTC | GTAATAATAT | TGATAATGTT  | AGAGAGCTTT | 761640 |
| TTTTATATGA | TCTTAATGGT | GACAGAGTGT | ATGATAATGG | AATTGCTAAA  | ATGCTAGGAG | 761700 |
| ATTGTCTGTC | GCCTCTTGTC | GCTTCCGGAG | GAGTTATTTA | TAATAAAAATA | AAGAATTACG | 761760 |
| ACTTGAAAAT | TTTTAATCAA | AAAAATAAAG | TTGAAGATTA | TAAAAAGAAG  | TACGAAGATA | 761820 |
| GAGAGAGAAA | AGTGAAGGT  | GAACCTAATA | CCTTGGATTT | TACCGTTAAG  | CGCATGAAAG | 761880 |
| ATCAAGAAAA | TACATTAAAG | GCTTTTGATT | TTAATCAAAG | AAATAAATAA  | TAATAATTAT | 761940 |
| TTTTAATGCT | ATTGCTATTT | GCGTTTCTTT | TTTTTTAATT | TTTGTGCTAT  | TCTTTTTAAC | 762000 |
| AGGCAAAAGG | ATTTGCCAAA | GTCAGAAATT | TAAATTTTAT | CATGGAGGAA  | TGATATATGA | 762060 |

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|------------|------------|------------|-------------|------------|------------|--------|
| TTATCAATCA | TAATACATCA | GCTATTAATG | CTTCAAGAAA  | TAATGGCATT | AACGCTGCTA | 762120 |
| ATCTTAGTAA | AACTCAAGAA | AAGCTTTCTA | GTGGGTACAG  | AATTAATCGA | GCTTCTGATG | 762180 |
| ATGCTGCTGG | CATGGGAGTT | TCTGGTAAGA | TTAATGCTCA  | AATAAGAGGT | TTGTCACAAG | 762240 |
| CTTCTAGAAA | TACTTCAAAG | GCTATTAATT | TTATTCAGAC  | AACAGAAGGG | AATTTAAATG | 762300 |
| AAGTAGAAAA | AGTCTTAGTA | AGAATGAAGG | AATTGGCAGT  | TCAATCAGGT | AACGGCACAT | 762360 |
| ATTCAGATGC | AGACAGAGGT | TCTATACAAA | TTGAAATAGA  | GCAACTTACA | GACGAAATTA | 762420 |
| ATAGAATTGC | TGATCAAGCT | CAATATAACC | AAATGCACAT  | GTTATCAAAC | AAATCTGCTT | 762480 |
| CTCAAAATGT | AAGAACAGCT | GAAGAGCTTG | GAATGCAGCC  | TGCAAAAATT | AACACACCAG | 762540 |
| CATCACTTTC | AGGGTCTCAA | GCGTCTTGGA | CTTTAAGAGT  | TCATGTTGGA | GCAAACCAAG | 762600 |
| ATGAAGCTAT | TGCTGTAAAT | ATTTATGCAG | CTAATGTTGC  | AAATCTTTTC | TCTGGTGAGG | 762660 |
| GAGCTCAAAC | TGCTCAGGCT | GCACCGGTTT | AAGAGGGTGT  | TCAACAGGAA | GGAGCTCAAC | 762720 |
| AGCCAGCACC | TGCTACAGCA | CCTTCTCAAG | GCGGAGTTAA  | TTCTCCTGTT | AATGTTACAA | 762780 |
| CTACAGTTGA | TGCTAATACA | TCACTTGCTA | AAATTGAAAA  | TGCTATTAGA | ATGATAAGTG | 762840 |
| ATCAAAGGGC | AAATTTAGGT | GCTTTCCAAA | ATAGACTTGA  | ATCTATAAAG | AATAGTACTG | 762900 |
| AGTATGCAAT | TGAAAATCTA | AAAGCATCTT | ATGCTCAAAT  | AAAAGATGCT | ACAATGACAG | 762960 |
| ATGAGGTTGT | AGCAGCAACA | ACTAATAGTA | TTTTAACACA  | ATCTGCAATG | GCAATGATTG | 763020 |
| CGCAGGCTAA | TCAAGTCCC  | CAATATGTTT | TGTCATTGCT  | TAGATAAAAT | TCTAGTTTAA | 763080 |
| TTGGTATAAA | TTGTATTAA  | AAAAGATCCT | TTAAAGGATC  | TTTTGTTTTT | TTATTTTACA | 763140 |
| TCGGCAAAAA | TTTAATAATT | TTAGTATAAT | TTATAATGAT  | GTGTTATAAA | GCATAATGCA | 763200 |
| GGCTTATTGA | GGAGTTTGCT | TTGAGTAGGG | TTGCTGTTAA  | AATTAAAGAT | TGTTATAAAG | 763260 |
| TATTTTCGTA | TTATGTTAAC | AAAAAGCAGA | TAAGTCGAGC  | TATAAAAGAC | TATGAAGATG | 763320 |
| GCAAAGATAG | AATGCAAATC | TACAAAGAAT | CTTCTATTTT  | TATTGCAAAT | GCCAATATTA | 763380 |
| ATCTTGATGT | TTATGAAAAT | GAAATTTTAG | TTATTATGGG  | TATGTCGGGC | TGTGGCAAGT | 763440 |
| CTACTTTAGT | CAGGTGTTTA | AATGGTATTT | ATAAAAATAGA | TTCAGGATCT | ATTTTGGTAA | 763500 |
| ATAATATGGA | AATGAATGCT | ATAAATCGTA | AAGATCTTTC  | TAATTTAAGA | AAAGATAAAT | 763560 |
| TTGCAATGGT | TTTTCAAAAT | TTTGGACTTT | TTCCCCATAT  | GAATGTACTA | AGAAACGTTA | 763620 |
| CATATGGACT | TGAGGTTAAG | CATATCCCCA | GAAAGATTAG  | AGAAGAACGT | GCTATTGAGG | 763680 |
| TATTAAATCT | TGTGGGGCTT | GAAGATTCAA | AATATAAGTA  | TATTAATGAG | CTTTCTGGAG | 763740 |
| GAATGAAACA | AAGAGTTGGA | ATAGCAAGGG | CATTGGTGGT  | TAATCCAGAT | ATTCTTTTAA | 763800 |

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|-------------|------------|-------------|-------------|------------|------------|--------|
| TGGATGAAGC  | TTTTTCGGCA | CTTGATCCTT  | TAATTAAAGG  | AGAAATGCAG | GAAGAACTTT | 763860 |
| TGAGGCTAGT  | AGCCAAGCTT | AAAAAACAG   | TTGTGTTTAT  | TACCCATGAT | TTAAATGAAG | 763920 |
| CTTTTAAATT  | GGGACATAGA | ATTGCTTTTA  | TGAGAGATGG  | AAAAATTATT | CAAGTTGGCA | 763980 |
| AACCTTTGGA  | AATTTTAGCT | AATCCTAGTA  | CAGATTTTAT  | ATCTGATTTT | ATTAAAAATT | 764040 |
| TACCTGTTTT  | AAATATTTTA | AAAATAAAAG  | ATATTTTAAA  | AGATGATTTT | GATTTAAACT | 764100 |
| CTGGTGGTGA  | TAATGGCTTA | AATGTTATTA  | TTAAATGTCA  | AGGTGAAAAT | TTAGTTTTGT | 764160 |
| ATGACAAAGC  | TCTTAACAAA | AGGTATGATA  | ATCTTGATATC | TTTAAATTTA | GATCTAAACG | 764220 |
| ATGAGATAAA  | AAAAATTGTT | GAATATTTAA  | ATAAGCAAGA  | TTATTTAATA | ATAAAAGAAA | 764280 |
| AGGGAACGTG  | TGTCGGATAT | ATTAGTTTAA  | ATGAAATCTC  | TTATTTATTA | TCAAGATAGG | 764340 |
| AATTTATGAC  | TAAAGATTTT | TTTATATTAA  | AAATAGATAA  | TTTTTTTGAT | TTTTTGGTTG | 764400 |
| ATAATTTTTC  | AATTTCTGAT | GGAGTAGGTT  | TTTCTAAAAG  | TATAATTTTT | TTATATGAAA | 764460 |
| ATTTAAAAAA  | TTTATTTCTT | TTTGTTAACC  | CACTTCTTTT  | TATTTTGACT | GTATGTTTGC | 764520 |
| TAAGTTTTGT  | TTTTTTAAAA | AAGAGGTTAA  | TATTTTTAAT  | TTTACCCGGA | TTCTTTTTTA | 764580 |
| TTTTGTATTT  | TAATCTTTGG | GAAGCTTCAA  | TGGATACAAT  | AGCTATTATA | TTTGTCTCTG | 764640 |
| TATTAGTTTC  | TGTTATTTTG | GGAATTCCTA  | TAGGTATTTT  | GGGCGGATAT | TTCCCAAGAT | 764700 |
| TTTATGTTTT  | TTTGAAACCT | ATTCTAGATT  | TAATGCAAGC  | CATGCCCCCT | TTTATTTACT | 764760 |
| TGATTCCCGC  | TATTCCTTTT | TTTGGAATGG  | GTACAGCTTC  | TGCTATTTTT | GCTACAATAG | 764820 |
| TTTTTGCTAT  | GCCCCCTGTT | ATTAGATATA  | CAAGGCTGGG  | AATTGTTCAA | GTTTCAGATG | 764880 |
| AGGTAATAGA  | GGCAGCTAAG | TCCTTTGGTA  | GTAATAATTT  | GCGCATTCTT | TTTCAAGTTC | 764940 |
| AACTTCCCCCT | TTCTCTTCAA | AGTATAATTG  | AAGGTATTAA  | TCAGTCAATA | ATGATGGCTA | 765000 |
| TATCTATGAT  | AGTAATTGCT | GCAATGGTTG  | GATCGTCTGG  | TTTGGGCAGA | ACTGTGATTT | 765060 |
| ACTCTATAGA  | AAGATTAAAT | TTTGGTGAGG  | GTTTAATATC  | TGGATTAGCA | GTTGTTATTA | 765120 |
| TAGCTATTAT  | TTTAGATAGG | ATTATGCAAT  | CTATCTTTAT  | TAAATTTAGC | TATTTAAACA | 765180 |
| CAGATCATT   | TGGTGGAAAG | AAAGAGAATA  | AATTTAAAAG  | ATTCTTAGAA | ATCTATAATA | 765240 |
| AATAAGGAGG  | ATATTTTATG | TATAAATTAT  | TTTTATTTTT  | TATTATTTTT | ATGTTTTTGT | 765300 |
| CTTGTGATGA  | AAAAAAGAGT | TCAAAGAATT  | TAAAATCGGT  | AAAAATTGGA | TATGTGAATT | 765360 |
| GGGGTGGAGA  | AACGGCAGCT | ACAAATGTAT  | TAAAGGTTGT  | TTTTGAGAAA | ATGGGCTACA | 765420 |
| ATGCAGAAAT  | ATTTTCAGTT | ACTACGTCTA  | TAATGTATCA  | ATACTTAGCA | TCTGGAAAGA | 765480 |
| TAGACGGTAC  | GGTGTCTTCT | TGGGTTCCCTA | CAGCCGATAA  | ATTTTATTAT | GAAAAACTGA | 765540 |
| AAACAAAGTT  | TGTTGATCTT | GGTGCAAATT  | ATGAAGGAAC  | CATTCAAGGT | TTTGTGGTGC | 765600 |

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|------------|-------------|-------------|-------------|------------|------------|--------|
| CAAGCTATGT | TCCAATTTCC  | AGCATTAGTG  | AGCTTAAGGG  | TAAAGGTGAT | AAGTTTAAAA | 765660 |
| ACAAAATGAT | TGGCATAGAT  | GCTGGTGCGG  | GAAC TCAAAT | TGTTACAGAA | CAAGCGCTTA | 765720 |
| ATTATTATGG | ATTAAGTAAA  | GAGTATGAGC  | TAGTTCCTTC  | AAGTGAGAGT | GTTATGCTTG | 765780 |
| CAAGTTTAGA | TTCTTCAATA  | AAGAGAAAACG | AATGGATTTT  | AGTTCCTTTG | TGGAAGCCTC | 765840 |
| ATTGGGCTTT | TTCTAGGTAT  | GATATTAAGT  | TTCTTGATGA  | TCCTGATTTA | ATTATGGGGG | 765900 |
| GAATTGAGAG | CGTGCATACT  | CTTGTTAGAC  | TTGGTCTTGA  | AAATGATGAT | TTTGATGCAT | 765960 |
| ATTATGTTTT | TGATCATTTT  | TATTGGAGCG  | ATGATTTAAT  | ATTGCCCTTA | ATGGATAAAA | 766020 |
| ATGATAAAGA | GCCAGGCAAA  | GAATACCGCA  | ATGCGGTGTA  | ATTGTTGAA  | AAGAATAAAG | 766080 |
| AGATTGTAAA | GACGTGGGTT  | CCAGAAAAAT  | ATAAGACCTT  | ATTTGATTAA | TCTTTTTTTA | 766140 |
| AATTCTTTTA | AGGATTCTAA  | AATGGGTTTG  | TATTTAGGAG  | TAAAATCGTT | TCCCCCTTTG | 766200 |
| AATAATGCGT | TACATCTTAT  | TATTCTTAGT  | GTCATTAATA  | TTAAAGCCGT | TAAAAAATTG | 766260 |
| TATTTTTTTA | GACATTCAAT  | TGAATATTTT  | GAGCAGGTAG  | GTTTGTATAT | GCATTGTAGT | 766320 |
| CCAAATATTT | TAGATAAAGT  | ATTTTGGTAA  | ATTTTATTA   | GAAAAATAAG | AGCATAATTT | 766380 |
| AAGATAAATA | AAATTTTAAA  | AATGTTTATA  | CTTAGAATTG  | TATTATATTA | TAATAATTAA | 766440 |
| TCAAATGAAT | TGAAAAATATT | AATTAAGTTT  | TATAACTTTA  | AAGTTTTGAT | TTTTATTATA | 766500 |
| AGGGGGCTTC | AAATTA AAAA | AATTTTTTTA  | ATTTTTATTA  | CTGTCTCTTT | TTCTTTTGCT | 766560 |
| GAAATTATTC | AAATATCCCC  | CAAGCAAGCT  | GTAAATATGG  | CTTTAGAAAA | TAGCTTGGAT | 766620 |
| TCAGAAAATG | CTTTGTACAA  | AGAAAATATA  | AAAAAACTTT  | ATAAAAATAA | TGCATGGAAT | 766680 |
| GTTTTTGTTT | CAAATGTAA   | CCTTAGCTCT  | ACACTTAGTA  | GAAATCCTTC | TGCTTTGAGT | 766740 |
| GAGCTTGAAA | GAGATTATTG  | GGGTTTTGGG  | TTTGGAGTTG  | GGATTAATCT | TTCTTTGTCC | 766800 |
| CCTTCTGTTT | TAAAGAGAAT  | GCAACTTGTT  | ATGTTGGAAT  | ATGAAAGCGC | AAAAATAGAA | 766860 |
| AGGGAGAGTG | CTGTTTCGTAA | TATCAAGCTA  | AATGTTCTTA  | AGTCTTACAA | TCAATTGATA | 766920 |
| GCTTTAAAGA | GCACTTTGAA  | AGTTTTTGAG  | AGTCAAATAC  | AAAATAGTAA | ACTTAAATTT | 766980 |
| GAACAAGCTA | GAATTGCTTA  | TAACAATGGA  | CTAATATCAG  | AAATAGATTT | CCTTGATGCT | 767040 |
| CAGCTTAAGT | ATAAAAAATC  | TCAACCAGAT  | TTGGATGGTC  | ATATTATTAA | TTTTGAAAAA | 767100 |
| TCAAAAGAAA | TTTTCAAATT  | ATTAATAGGA  | TTAGATCATG  | ATCAAGATTT | TGAAATTATT | 767160 |
| GGAGAATTGC | CAGACGAAAC  | AATAGATTTT  | TCTCTATTTA  | ATGAGGCATT | AAATTTTAAT | 767220 |
| GAATCATTAG | AGATTAAGGA  | TTTGAATATG  | CGCTTAAAAA  | TGACCGAGCA | GCTCATTGAT | 767280 |
| TCGCTTTGGT | TAGATACTTA  | TTTGCCAAGC  | CTTCTTTTGT  | CATTTTCTTA | CTCTCCTTAT | 767340 |

|             |            |            |            |             |             |        |
|-------------|------------|------------|------------|-------------|-------------|--------|
| AAATCATTTC  | ATGAAAATTC | CAAGGGCTTT | TCAACTGGAT | TTTTCAGCATC | CTTTAGTTTA  | 767400 |
| AATTATGGTT  | TAACTGAAAT | ATTTCCATTT | TCAAAGAGTT | TTACAAAAAT  | ACAAGATAAC  | 767460 |
| AACTATCAGC  | TAAAAATACT | ACAAAACAAT | GTTGAAGGTA | AAATCAGGAA  | TTTAAAATCT  | 767520 |
| AGTATTGTGC  | AAAAAAGAAA | AGATATTAGA | AGATATAAAG | CGATTCTTGA  | TGCTTCTAAA  | 767580 |
| ATTAATGTAG  | AATTAGCGAA | TAAAAATTAT | CAAATGGCAT | TTAATGCTTT  | TAATTCCGGG  | 767640 |
| GTCATGGATC  | TTTCTAAATT | AAATGATATT | GAACTTGTTT | ATAAGCAGAG  | CGATTTAAAG  | 767700 |
| TTCATTGAAG  | ATAAATTAAA | TTATGCCAAT | TCTATACTTG | AATATAAAAA  | TTTAATAAAT  | 767760 |
| TCATTAGACT  | AAGAGGTATT | TTGATGAATT | TGATTTTTAA | TATTAATTTA  | TATTTAAAAA  | 767820 |
| AATATTTTTT  | AGTTTTATTC | TTAGTTTTAG | TTGCTTGTGT | TGGTGATAAC  | AAGCTAGATG  | 767880 |
| ACAAAAATAT  | TGATAAGGAG | AAAGAAAGTT | CCTATAGATT | CCCAGTAATT  | GCTATGAAAG  | 767940 |
| TTAAAAAGGG  | AATCTTGAGC | GATTATTTGT | CTTTAAATGG | AGATGTAGAT  | ACAAAAGTTA  | 768000 |
| AGGCAGATAT  | TTTTCCAGAC | GCTGTGGGCA | AAATAACTTC | TTTGAGAATA  | AAACTTGGAG  | 768060 |
| CTTATGTTCA  | AAAGGGACAA | ATAGTTGCAA | CTCTTGATCC | TTCAAGACCT  | GGTCTGTAT   | 768120 |
| ATTTGAAAAG  | TCCTGTAAGA | GCGCCAATCT | CAGGATATAT | TTTAAATATT  | ACAAAAAATA  | 768180 |
| TTGGTGAAAC  | AGTTAATCCC | CAGTCCAACA | TAGCAGTAGT | GGGAAGGATA  | GATACAAAGC  | 768240 |
| AAATTTTAAAC | CTATGTGTCT | GAGAAATACA | TTTCAAATAT | TAAAGTTGGA  | AATGATGCTA  | 768300 |
| TTATTGAGGT  | TGGAGCTTAT | TCTAATGAAA | AGTTTAAAGC | TAAAGTTTCA  | GAAATATCTC  | 768360 |
| CCATTTTAGA  | TTCTAAAAGT | CGAACTATCG | AAGTATATCT | TACGCCTATT  | GGTAGTAATT  | 768420 |
| TAGATAAACT  | GATTATTGGT | ATGTTTTCTA | AAATCAAAC  | TATTACTAAG  | CGATTTAAAG  | 768480 |
| ATGTAATTAA  | GATTTCAAGA | GAGGCTGTTG | TTGAGAGAGA | GGGCAAAAAA  | TTTGTATTTA  | 768540 |
| AGGTTGATTT  | AGAGAGTAAG | AGTGTTCAAA | TGTTACCCAT | TACAGTGCTT  | TTTGAAATAG  | 768600 |
| ATAACATTGT  | AGCTCTTTTC | GGCGAGGTTG | AAGAGAATGA | TTTAATTGTA  | GTAGAAGGCA  | 768660 |
| TGTCTGCTCT  | TTCTAATGGA | TCTCTAATAA | ATTTGGTAGA | TACCAAAGAG  | GGTCTTTTCAG | 768720 |
| CCGAAAGCAA  | TATTTAATTT | GTTGGGGGAT | GTGTTATGTT | GGTAAAGAGA  | ATAGTTGGCA  | 768780 |
| AACCAATAAC  | AATGTTGATT | TTATTTTCAT | TGTTATTGAT | GATAAGTTTG  | TATACCTTTT  | 768840 |
| CAAGATTAAA  | AGTAGATCTT | TTGCGGGGAA | TTGACATTCC | CCAAATAAGT  | ATTCACACTG  | 768900 |
| TTTATCCTGG  | CGCTTCTCCT | AGAGAAGTTG | AAGAGAGTGT | TTCTAGAGTC  | CTTGAGAGTG  | 768960 |
| GCTTGAGTTC  | GGTAAAGAAT | TTAAAAAATA | TATATAGTGT | ATCTTCCAAA  | GAAAGCAGCA  | 769020 |
| CCGTTTCACT  | TGAATTTTAT | CATGGAACCG | ATTTAGATTT | GGTTTTAAAT  | GAAATTCGAG  | 769080 |
| ATGCTCTTGA  | ATTGGTAAAA | TCTTCATTGC | CCAGCAAATC | ACAGACCCCA  | AGAATTTTTA  | 769140 |



GATACAATCT TAAAAACATC CCTGTAATGG AAATTGTTAT TAATTCTGTA AGGCCAGTTT 769200  
CTGAGCTTAA AAGATATGCC GATGAAATCA TTAAACCTGG GCTTGAAAGG CTTGATGGAG 769260  
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ACAGGCTGGA GTCTTATGGG CTTTCTTTGT CAAGAATATC TTCAATTATA GCATCCCAA 769380  
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CTTTGTGGT TCAAAAACGT AGTGATTCTA ATTCTATTGC AGTTTCTAAT GTTGTATGA 769680  
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|            |             |             |            |            |             |        |
|------------|-------------|-------------|------------|------------|-------------|--------|
| AACTTGTA   | AACTTGTA    | AACTTGTA    | AACTTGTA   | AACTTGTA   | AACTTGTA    | 770940 |
| ACAGAGCGCT | AGTTTATAAT  | TATGGTATTG  | ACATGAATAC | CATTTTAAAT | GAGTTGAAGG  | 771000 |
| CCAATATTAA | TGGTGTGTGTT | GCTGGGCAAT  | ATGTGGAGAA | GGGACTTAAT | TATGATATTG  | 771060 |
| TTCTTAAGCT | TGATAGAATG  | GATGTTAAAA  | ATTTAAAAGA | TTTAGAAAAA | ATATTTATTA  | 771120 |
| CAAATTCATC | TGGAGTTAAA  | ATTCCTTTTT  | CATCAATAGC | CACCTTTGAA | AAAACCAATA  | 771180 |
| AAGCCGAATC | TATTTACAGA  | GAAAAATCAAG | CTTTAACCAT | TTATCTTAAT | GCGGGTATTT  | 771240 |
| CTCCAGATGA | TAATTTAACC  | CAAGTAACCG  | CAAAAGTTGT | AGATTTTATT | AATAATAAGG  | 771300 |
| TGCCCCATAA | AGAAGGCATA  | ACTCTTAAGG  | TTGAAGGAGA | ATATAATGAA | TTTTCAAATA  | 771360 |
| TCATGAATCA | GTTTAAAATA  | ATCATTATGA  | TGGCTATTAT | TGTTGTGTTT | GGTATTATGG  | 771420 |
| CTTCTCAATT | TGAATCTTTT  | TTAAAACCTT  | TTATTATTAT | TTTTACAATT | CCTTTAACGG  | 771480 |
| CAATAGGGGT | TGTGCTTATA  | CATTTTCTTG  | CAGGAGAAAA | GCTTTCTATT | TTTGCTGCAA  | 771540 |
| TTGGTATGCT | TATGCTTGTT  | GGTGTGTGG   | TAAATACAGG | AATTGTTCTT | GTAGACTATA  | 771600 |
| CTGGTTTATT | GATCAAGAGG  | GGATTTGGCC  | TAAGAGAAGC | AATTATTGAA | TCTTGTCGTT  | 771660 |
| CAAGGCTTAG | GCCAATTTTA  | ATGTCTTCTT  | TGACCTCAAT | AATAGGGCTT | ATTCCAATGG  | 771720 |
| CATTTTCTAG | CGGAAGTGGA  | AATGAACCTC  | TAAAACCAAT | TGCATTTACT | TTTATTGGCG  | 771780 |
| GAATGACAGC | TAGCACATTT  | CTTACTTTGT  | TTTTTATTCC | CATGCTTTTT | GAAATTTTTTC | 771840 |
| CAACATGTTT | CAAGTTTCAA  | ATCTAGGCTA  | AAAAGAGTGA | CGTCCAATTT | AGATGTTGAA  | 771900 |
| AAATCATTCA | AAATTAATAA  | TTCAACTAAA  | AGTAGTTATG | ATGATTTATT | TGAAGAAGAT  | 771960 |
| GGGGAATGAT | ATGACTAAAT  | TTTATAATTA  | TAGGATTGAA | ATAGTTTCTA | ACTTATCTTT  | 772020 |
| AGAGCTTGAT | GTTTTTTGAAT | GTATAGAAAA  | AATAGAGCAA | GAGTTAGGAG | AGTCTATATA  | 772080 |
| TTATTCTAAG | ATAGGAAATG  | TTTATGGAAA  | AGGTAAGAAG | GGAGAAAAGC | ATGGTAATGG  | 772140 |
| CGTTTGGCCT | GAAGAAAATT  | TTATTTTGAT  | TATTTATACC | TCCAATCAGT | CTATTGTTGA  | 772200 |
| GCGATTAAAG | GATATTGTGG  | ATGATTTGAA  | TCGTTCTTAC | CCTACAGAAG | GGATTAAATCT | 772260 |
| TTTTGT     | TTTTGT      | TTTTGT      | TTTTGT     | TTTTGT     | TTTTGT      | 772320 |
| TGGTTAATAA | TTTTTTTTTAA | AGTTATTAGA  | ATATTATAGA | CACGCGATCA | AAGTTTGT    | 772380 |
| GTGGGCTTTT | TGTTTTAAAT  | GATAAATATT  | TATTACAAAA | TAAATTTTAC | TATTTTATTT  | 772440 |
| CAATAGCTAC | AAAAATTTTT  | TCTTTTCATT  | CTTTTTTTAA | AGTCAGAGTC | AATATATTTT  | 772500 |
| ATAGGCTTAT | TCATCGTATT  | CAAGTAAAT   | CAGATAAATA | TGATCAGATA | AATATTATTT  | 772560 |
| TAAAGCCTAT | GAAAATTATA  | TTTCCTGTAT  | TTCTGAAGAA | AAAAATAAGA | AGATTTTTTTA | 772620 |
| GAAAGAGTGA | CTGATTGTTT  | TAAAGGTGAT  | AAAATAGATC | CTAAACATTG | TTATTATATT  | 772680 |

|            |             |             |            |            |            |        |
|------------|-------------|-------------|------------|------------|------------|--------|
| TGTGAAAATA | ATTGGATAAT  | ATTTAATGTT  | TTAGTTATTT | TGAAAAAAT  | ATTACTTGCT | 772740 |
| AAAATATTGA | AATTGAAATT  | TACTTCTAGA  | TTTTCAATTA | TTTTTTTATT | AAAATATTTT | 772800 |
| TTTAAACTTT | GTTTTGATTT  | TTTAGGTTTT  | TATTAATTGA | TCGATTTCTG | TATGTTTTTA | 772860 |
| CAGCAGGAGA | GCTTTATAAA  | TAATCTTTAT  | GAATTTATGG | TTAATAATGA | TATAATAAAC | 772920 |
| CATGTTAACT | TTGTTAAAAG  | GGGGATTATA  | TGTCAATAGC | AAAGGCATTT | TTTGAAGTGG | 772980 |
| CTGATCAACA | AAAAGATAAA  | ATTGCTCAAA  | TGTATAAAGT | TTGCAATGGA | TATGCCCACG | 773040 |
| TTACTTATGG | CGACTTAAAA  | AACAATGTTT  | TAAAGCTTGC | TTCTTTTTTA | AAGTCAATCA | 773100 |
| ATGTTAAGCA | TCAAGATAAA  | ATATTTATTT  | GCTCTGAGAA | TAGGGCTGAG | TGGACTGTGA | 773160 |
| TAGATTTTGC | AATTTTATCT  | TTGGGTGCCG  | TTGATATTCC | AAAGGGTTCT | GATGTTACTC | 773220 |
| TTTTTGAAGC | GGAAATTATT  | TTTAACTCCG  | TTCTTCCAAG | TGTAGTTATT | TTAGAAAATT | 773280 |
| TAAATCTTCT | TAATATGTTT  | ATTCAAAATTA | AATTTACAGT | AAAGCCAATA | TTTATTATTA | 773340 |
| TTGAAAATTT | AAACCAAGAG  | GATAGATTAA  | AATATAGTGA | TTTTGAAATT | TATACTTATA | 773400 |
| GCGATTGTAT | TTTATTTGGA  | GATACCTTAA  | GAAAAGATTC | AGAAATTATT | GAGATTGCAA | 773460 |
| GTAAAGTTGA | TTCTAATGAT  | ATGGCAACAA  | TAATATATAC | TTCTGGAACA | ACAGGCCACC | 773520 |
| CAAAGGGGGT | AATGCTCAGC  | CATGCCAATC  | TTCTTTATCA | GGTTTCTAGT | TTTAGTTTAA | 773580 |
| TGGTTGATAC | GCATGTGGGA  | CAAATATTTA  | TGTGCATTTT | GCCAATTTGG | CATTCCTTTC | 773640 |
| AAAGGTCTTT | TTCTTACAAT  | ATTTTCCTCA  | AGGGTATGGT | TTGTTTATTT | TCCACCATTG | 773700 |
| TTCCAAGGGC | AATGCTTGAT  | GATATTAAAA  | ATGTTAATCC | TCATTATATT | GCAGCTGTTC | 773760 |
| CTAGGCTTTG | GATTGCAATA  | AGACAAAATA  | TTTACAAAGA | AGTTTCTAAG | AAACCGTTTA | 773820 |
| TTTCTAGAAT | GATTTTTTCAT | TTTTTTGTAA  | AAGCGGCATT | TCTTAGCGAT | ATTTGCTATA | 773880 |
| GGGTGGTAAT | GGGGCTTTAT  | CCGGACAACG  | GGTTTAGTTT | ATTTTTCCCT | ATAAAGAAAA | 773940 |
| TTTTAGGAAT | ATTTGGATTA  | ATCTGTGCAT  | TTCTTTTAA  | GGCTTTGGGG | AATGTTTTAA | 774000 |
| TTTTTAATAA | AATAAATAAG  | ATCTTGGGCA  | ATAATTTTGT | TGTTGGGATT | ACTGGTGGCG | 774060 |
| GGAGTATGCC | ATTGTCTGCT  | GTTAGATTTT  | TTAATTCAAT | TGGTATTGAG | CTTGCCAATG | 774120 |
| CTTATGGATT | GACTGAAACC  | TCGCCTGGAG  | TGGCTTCTAA | TAAGCATAAA | AAAGTGATTA | 774180 |
| TTGGGACTTG | TGGTAAAATT  | TTGCCCGGAA  | CTGTTGCTGA | AATTAGAGAT | ATTGATGGGA | 774240 |
| ATAAGCTTAA | AAAGCCTGGA  | AAGGGAATTT  | TGTTTGTAAG | AGGGCCTCAA | GTAATGCTTG | 774300 |
| GATATTACAA | GGACAAAAGAA | GCAACTTGTA  | AGATTATTGG | TTCTGATGGG | TTTTTAAACA | 774360 |
| CGGGTGATAT | TGCAAAATTA  | TCCAAGGATA  | ATGTTGTTCA | AATTATTGGT | CGAGAAAAAG | 774420 |

|             |             |             |             |             |            |        |
|-------------|-------------|-------------|-------------|-------------|------------|--------|
| ATACAATTGT  | TTTGAATAAT  | GGAGAGAATG  | TTGAGCCTGC  | TCCAATTGAG  | ATTAAGCTTG | 774480 |
| AAGAATCAGC  | ATTAATAGAA  | AAAGCAGTTG  | TTGTAGGGCA  | AGATCAAAAA  | TTCTTAGGCG | 774540 |
| CTCTTATTCT  | TCCAAATTTT  | GAAGAAATAA  | ATAAATATCT  | AGAAAGTGTT  | GGACAAAAAA | 774600 |
| TTTTTGATGC  | TAATAATAGG  | CGTCAAATTA  | TTGCGAATAA  | TATTGTTCTT  | AAGGCCATAA | 774660 |
| ATGATGAAAT  | AAAAAAATTA  | ATCAATAAAG  | CCAATGGATT  | TAAGCCTTTT  | GAGCAGATAT | 774720 |
| TAAAGTTTAC  | TCTTTTAGAA  | AAACCATTTG  | AAGTTGGTAA  | AGAAATGTCT  | ATTAAAAATG | 774780 |
| ACATTAAGCG  | AAGCTATATT  | TTAAATTTTT  | ATAAAAATGA  | AATTAAAAAT  | TTATTTATTT | 774840 |
| AATTAACCCA  | ATTATTTTAA  | ATACAGTTCA  | AGCTCTGTTA  | TATCTTCTAA  | TTTTGTATTG | 774900 |
| GGGGATATAC  | TTTGCTTGTA  | AACAAATCCA  | TCGCCATTTA  | TTTTTATTTT  | CATAGTATTT | 774960 |
| TTATAGTATT  | TTAGTATGTC  | TATTGCTTCT  | CTTTTAGAAA  | GGTTGATAAA  | ATTTGGTAAG | 775020 |
| TATGTTTTGT  | TTTTGTAATT  | AGTTTCAGCT  | TTAGGGATCT  | TGATTTTTGA  | TGGCATTTTA | 775080 |
| ATTTTTTTAT  | ATGCTATTGT  | ATTTTGTTGG  | TGCTCAATAA  | ATTCTATTAT  | TTCTTTTGCC | 775140 |
| ATTTGGGGCTG | CTATTCTTGT  | TCCGTATATT  | ATTTTTTTTTG | GGTATCTGTA  | TACAATGTAA | 775200 |
| ATAATATATT  | TTGGTTGTTC  | TGTGGGGTAT  | ATTGCCAATA  | TAGAAGATGT  | ATAGTCTTCT | 775260 |
| TCTGAGTATT  | TTCCCGTTTT  | TCTATCAATA  | GCTTGAGATG  | TTCCACTTTT  | TGCAGAAATG | 775320 |
| TCAAGATTTT  | TAATTTTAAG  | ATTTGGAATT  | CCACCTTTAT  | TTACAAC TTC | TCTCATCATT | 775380 |
| TTTAAACTTT  | TTTGTGCTGA  | ATTTTGGAT   | ATTACTTTTC  | TTATTTCTTC  | TTTATCAAAT | 775440 |
| TCTTTAATAT  | TTTCTCCTTT  | ATCGTTGCTT  | ATTTTTTTTTA | TTATTCTAGG  | TTTTAGCATT | 775500 |
| ATTCCATTAT  | TGCTTAGTAT  | GCTTGCAGCT  | TGTAATATTT  | GAACCGCTGA  | CACTCCTATT | 775560 |
| TCTTGTCCAA  | ATCCAATTGT  | AGCTTTACTT  | CGTCCTGACC  | ATTTTGAATA  | ATGATTTAGC | 775620 |
| AGTCCTTTTG  | TTTCTCCGGG  | AAATGGA ACT | CCAAC TTTTT | CCCCAAAGCC  | AAAATCTAAA | 775680 |
| AGTTTTTTTAT | AAAAGTATTC  | ATTGCTAACT  | TTTTCAGTAA  | TGTAAGCTAT  | TCCAACATTT | 775740 |
| GATGAATAAA  | TTAAAATCTC  | TGTAGAGTCG  | ATATGTTTAT  | AGGGGGGATT  | TAATGTTTTG | 775800 |
| ATTGTAATTT  | TTTCTCCTGA  | TGGAAATTGT  | TTTTGATATA  | TTCCATTGTC  | TAAAAATTTT | 775860 |
| TCTTCTAAAT  | TTAATTTTCC  | ACTTTCTAAT  | ATTATTGCAA  | CTGTAAAAAT  | TTTATTAATG | 775920 |
| CTTCCGGGCT  | CATAGGTTAG  | AGATGAAGAA  | AGGTTTTTTTC | GGATTCTTTC  | AGGATATTTA | 775980 |
| GAATAAAAGT  | TTGCATCATA  | TTGAGGAAAT  | TGAACCATGG  | ATAATATTTT  | TCCATTTTGG | 776040 |
| GAGTTCATTA  | CCAAGGTAAT  | TAAACTTTCA  | GGATTATTTT  | CTTTAAAGTA  | TTTTTTAGCT | 776100 |
| ATTTTGCTAA  | CACCTTGTTG  | TATATCCATG  | TCTATTGTTA  | AGTGGATGTT  | GTTTGTTTCT | 776160 |
| GGCTCCTCAT  | TTAAA AATTG | TTGCTTGGTT  | TTATCTTTTC  | CTAATATGCT  | ATTTAGGGAA | 776220 |

|            |            |            |            |            |             |        |
|------------|------------|------------|------------|------------|-------------|--------|
| AATTCAATGC | CCTCAAGGCC | AAGATTATCT | GTTCTACAA  | AACCAGTAAT | ATTGCTTGTG  | 776280 |
| GTATTCCTGA | AGGGATAAAT | TCTTGTGTAA | TCAGGATATA | AAGTGATGTT | TGAAAGCCTG  | 776340 |
| CCTTCAGCTT | GAATTCTTTT | TATTAAATCT | GATTCTTCTC | TTTTTATTTT | TCTTTTATA   | 776400 |
| TATAAAAACC | CTTTGTTAGA | GGAAAGCTTT | TCCTTTAAAA | TTCTTGAATT | AATTTGAAGT  | 776460 |
| ATTGCACCAA | GAGTTTCAGA | TGTGCTTACA | ATATTTTCTA | TTTTTTGAGG | ATTTGTACCA  | 776520 |
| ATTGAGTAGG | ATTTTGAAGA | GAATGCTATT | GGTTTGCCAT | TTCTATCATA | AATTGTTCCCT | 776580 |
| CTTTTGGCAA | TATCATTTGA | CTTTAAAGAT | ATTGTGTTGT | CTGGGCTGTT | ATTGAAGGCC  | 776640 |
| ATTAGTGTGA | AATATTTGTA | AATAGTTAAC | AAAGTTATAG | CCAAGAATAT | TGTTAATATT  | 776700 |
| GTTTTTATTC | GATAAGTGTT | ATTAAGCATT | CTTTTGGTCA | TGAATTTTGG | ACCTCTTAAA  | 776760 |
| TTATTTTATG | ACTATATGAA | ATAAAAAATT | ATTCATTTTT | TTTTGCATCT | ATATTATTAT  | 776820 |
| ATGTTATTAT | ATTCTGAAAA | AGTAAATTAC | TATATAGCAG | AGGGTATAAT | GTGATGGATA  | 776880 |
| TTAAAACTTT | AAAAGGCTTT | AAAGATTATT | TACCGAAGGA | TTCTTTGATT | CGAATTCATA  | 776940 |
| TTGTTAGGCA | AATATTTAGT | GTTCTTAATT | CTTATAATTT | TGACCTAATA | GATACTCCAG  | 777000 |
| TTCTTGAATA | TTCAGATTG  | CTTTTAAAAA | AGAGTGGGGA | TGAGACTGAA | AAGCAAATTT  | 777060 |
| ATAGGTTTAA | GGATAATGGA | GGCAGAGATG | TTTCCATGCG | ATTTGATTTA | ACTGTTCCCT  | 777120 |
| TTGCCAGATT | TGTTGCTACA | AATATTTCTG | CTTTAAAGCT | TCCTTTTAGA | CGTTCTCAAT  | 777180 |
| TTGGAAAAGT | TTTCAGAGGA | GAAAATTCTC | AAAAGGGTAG | ATACAGAGAA | TTTATGCAGT  | 777240 |
| TTGATTTTGA | TATAGTTGGA | GAGGACACTT | TTAGGGGCGA | TGCCGAGATT | CTTCTGTTG   | 777300 |
| TATATTATGG | ACTTGAAGAG | ATTTTTTTGA | ATTTTATAGA | AGGCATTAAT | AAAAAATTTA  | 777360 |
| TTATCCATTA | TTCTCATATT | GGTATATTGA | ATTCTTTTTT | TGAAAAATTA | GGACTTAAAG  | 777420 |
| AAAAATCTAT | TTTTATTTTA | AGAAATATTG | ACAAAATAGA | TAAAATAGGA | ATTGATAAGG  | 777480 |
| TTAAAGAAGC | TTTGCTTCTT | GAGATTGAAA | AAGAAGCGGT | AGATTCAATC | TTAAGTTTAG  | 777540 |
| TGAGTTTGCA | AGGTACTTTT | AAAGACAAAA | TACAAGCTTT | AAAAAGTATT | TTAGGCGATA  | 777600 |
| ATGAGTCTAT | CAAGAGAGTA | GAAGATGTTT | TTCAGCATCT | TAGTTTATTA | AAAATTCAAG  | 777660 |
| ATTCTTTTAA | CTTGAATCTT | AAAATATCGC | GTGGACTTGA | TTATTATACG | GGGATTGTTT  | 777720 |
| TTGAATCTGA | GGTGTTTGGC | AGTAATATGG | GTAGTGTTTG | CAGTGGGGGA | AGATATGATA  | 777780 |
| ATTTGGTTTC | TTCGTTCTCA | AACTCTATTC | AAAAAATTTT | AGGGGTGGA  | GGATCTTTTG  | 777840 |
| GTGTTGACAG | AATAAAGGAT | ATAATTGATC | TTGAAAAGTT | TAGTTATATT | AAAATATTTG  | 777900 |
| TCACTAAGGC | TAGATCTAAA | GTTTTAATTG | TAAATTTAGA | TAGTGCTTTG | CAAAATTATT  | 777960 |

|            |            |             |            |            |             |        |
|------------|------------|-------------|------------|------------|-------------|--------|
| ATTATGAACT | TGCTACTAGA | TTTAGAAATC  | ATGATTATTC | CAAGGTAA   | AATATTTCTT  | 778020 |
| GTGAAGTCTA | TTTTAAAAAT | AAAAATGGTA  | AAAATATTAA | AGAACAAATA | GAATATGCTT  | 778080 |
| TAAGCAAAGA | AATAAGATTT | TTAGTTTTTG  | TTGGTCAAGA | AGAATACAAA | GAAAATAAAA  | 778140 |
| TGAAAGTAAG | AGATTTGACA | AAAAAAGAAG  | AGTTGCTGCT | TTCTTTTGAA | GAATCAATAA  | 778200 |
| ATCTTATCAA | ATGTAATGAA | AAGTTGTTGT  | GCACCCCTTT | TTAATCTTAA | ATGTTAATTA  | 778260 |
| TTTTTTGAAA | TTTTGGCAAA | GATATTAGGA  | TTAATTTTCA | TTTTTATCTA | TTTTTCTAAT  | 778320 |
| TGTTATTGCA | TTTAAGGTAA | GTTTGTCTT   | TTTGTATTCT | ATTTGTCCAA | GTATTTCAAC  | 778380 |
| ATTGTCTTTA | AAATCAATAT | CAATATCAAA  | GGTTGTTTTT | GTGGGGATAA | TTCCTGAGAG  | 778440 |
| TACATTTTTG | TTGTATCCTA | CATAAAAGTC  | AAATTGAATT | ATGTTATCTT | TTTTTTCGAT  | 778500 |
| ATTATTTACT | ACTCCTTCCC | ATTTTACATA  | CACGTTTGAA | TATATTGATG | GATCTTTTTT  | 778560 |
| AATATCTTTT | AGGTTTAGAT | GTTTCATTAAA | GCTAATGAAA | TCTGGCCTTG | AGATAAAACT  | 778620 |
| TGCAAGATTT | TTGGCTTTTA | GCTTTATAGA  | TTCTGATGCA | TTTGAATTTA | ATATTTTATT  | 778680 |
| TATTTCTACT | CTTGCAAAAT | TATCTTTTCC  | CTTTTTTAAA | TAAATTTTGA | TTTTTTCGAA  | 778740 |
| AGAGTTTTTA | ATTTCTCGC  | TGGTTAGTAT  | TAATATGAAT | TGGCCTTCTT | CATTTTTTTAT | 778800 |
| TTTTTCTTTG | TTATTTATTT | TAATGTCATC  | AATGTAGGCA | GCAATATTGT | TTAAATTTTT  | 778860 |
| GTTTATTTCT | GCTTTTAGAT | TTGCGGATGT  | TGTTGTTTTT | TGTTCATAGA | AAATAAAATA  | 778920 |
| GATTGCTAAC | ATTGAAATAA | ATACAATCCC  | CCCTATGATA | ATTATTATGA | TTAACTTTGT  | 778980 |
| TGAATTTTTA | TCGGGTATTG | CTTTAATTGT  | TGGGAACAAT | TTTTCATATA | GGTTGCTATT  | 779040 |
| TTTAAAAAAG | GCAGAACCTT | TAATGGGATT  | TTTTCGAATA | ATTTCAAGAG | ACAGCTCTGA  | 779100 |
| TCGATCTACT | TCTTGATTTT | CTTCTATCAT  | TTTAAGCCAT | ATCTGAATAG | CTTTTTCTTC  | 779160 |
| TTTGCCCTGG | CTTACTAAAA | GTATAGCAAT  | AGCCTGTTTT | ATATTTGATT | CGCTTGGAAT  | 779220 |
| TAAAGTGTAG | GCTTTTTTTA | GATATGTTTG  | AGCATTGCCA | AGGTTCCCGA | TACGAAGATA  | 779280 |
| AGACATTCCT | AAGACATAGT | GATACAAATA  | GTAATTTTTG | TAGAAAAAAA | TTTCTTTTTT  | 779340 |
| TAGGAGTTTT | ATTGCTTGTG | AATATTTTTT  | TGAATTATAG | TAATAAATAG | ACTTGTTGAT  | 779400 |
| AATTTTATTA | GGTTCCATAT | AGCTAGAATT  | TGACTCCACA | ATTTTCTTTT | TAATATTATA  | 779460 |
| ATATAAGATT | TTATTTTAAA | AGAATAATAA  | ATGAAATATT | GTTATTTTGC | CCTAATTTCT  | 779520 |
| TGTTTGACTA | AAAATTGATA | AATGATATAA  | TTATATAAAG | TGTAACGGGG | GTTTGTATAT  | 779580 |
| ATTGTTTAAA | ATGGTGGGAA | TGTGTCATCA  | GAAAGAATCG | TTGAATTGAT | TAAAGAGATT  | 779640 |
| TATTTAGATT | TTAGAAAAGG | CAATTTCAAA  | GAAGCTTTAG | TAAAATCCGA | AGAGGCTCAT  | 779700 |
| TCTCTTGATT | TTGATAATAT | TGAAATTCTA  | ACAGCTTTGA | AAAGTTCTGT | GTATTGGAAT  | 779760 |

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|------------|------------|------------|------------|------------|-------------|--------|
| GGTCAAGTTG | AAAGCCTTGA | TAGAATAGGG | CAAGATTATG | AAAAGGCAGA | ATTTTAAATA  | 779820 |
| AGAGAGTGGA | ATAATTTTGC | AGGACGATAT | TTGAAAAAGA | TGGGTTGTAA | TTTTTTGCAA  | 779880 |
| GGTCGCAATT | CTATAAAATA | TTTGTGTTTT | CAGACCTGTC | TTTATATATA | TAAAAATATA  | 779940 |
| TACAAAATGC | ATCCAGAAAA | TTTGGACCTT | TTAATAAAAA | TTGCTAAGTC | TTATAAGGGT  | 780000 |
| ATGGGAAATT | ACGAGAGAGC | AATCAATGTT | TTTTTGCAAA | TATTAGGAGA | TTTAAAGAT   | 780060 |
| AACTCAGATG | TTGTTGCAGA | GCTTGCTGAT | TCTTATGCGT | TGGTTGATGA | AATTAAAGAA  | 780120 |
| GCTAAAGTAT | TATTCAGAGA | GGCTTTTTTT | ATTAATCCTC | AAAAGATAGA | TATATATTCT  | 780180 |
| CTTGAGTCTG | ATATGATTTT | AAGATTAATA | GATCTTATTA | AGTCTGACAG | AAATATTTCA  | 780240 |
| GATGATCTTA | TAAAAGAATG | GATTCCTGTT | TATGGCTCTC | TTAATGGTGT | TTTAAATATT  | 780300 |
| AAAAGAGAGT | TAAGGCCTAT | AGAGCTTGGA | CAGCTAAAGC | AGTCTGTTTA | CAGTTTGCGC  | 780360 |
| AATGAGCTTA | AAGAAAAGTC | TTATAGATCA | ATAAATGAGA | GCATATTGCT | TCCAAGGCTT  | 780420 |
| ATTAATAAAT | ATTTTTGGCT | TATTGATCAT | TATGTAAGGA | TAAAAGAAGA | TAGAGCACGT  | 780480 |
| ATTGATGAGA | TTTTGTTATA | CATAAAAGAA | ATAGACCTAG | GTATTTATCA | ACAGTATGTA  | 780540 |
| AATTAGTTGC | TTGATGCTAA | AAAATCGATA | TTAGGAGAGT | TTAATGTCTA | ATGTTACTAC  | 780600 |
| CATAGAGAAA | TTAGATAGTA | TTTTACAAGA | AGATAAGTGG | ACAAGAATAG | TTGTTAATAA  | 780660 |
| TTATTCTCTT | GCCAAAATAA | AAGAATTGGA | TGATTTAATA | AATAATATAA | TTGATGAGGG  | 780720 |
| GTTAACAGAG | GATGTGCTTG | ATATTTGTGG | CAGGCATTTA | AAGGACGTTA | AAAAAAGCAT  | 780780 |
| AGCAGGTCTT | TATATTTCTG | GAATGCTTAT | ATATAGTAGG | CGACCTTTAA | ATGATATGAA  | 780840 |
| TTTACTTGCT | GTTATTGATT | TGTTTTCTCA | AAATTTAAAA | TGGGCTCTTG | TTGAGCATAT  | 780900 |
| ATGTAATGAA | ATGCTTTTAA | TTTCTGAGAA | TAAGCACGCT | CTTTATACTC | TTGCAAAAAAT | 780960 |
| ATATGCTCAG | AACAATGAAA | ATGATAAGCT | TCCAGGTATT | TGGACTAGAA | TTGTTGAAGC  | 781020 |
| AGATATTGAC | GACACTGTGT | TTGTTAGGCA | ACTTGCTACT | TATTATGAAA | CTATTGATTT  | 781080 |
| GCAAAAATCA | ATTTTCTATT | TTAGAAAAGC | TATTTATCGT | TTTATTGATA | AAAAACAAAT  | 781140 |
| GTCAGGAATC | AGAGAAGTAT | GGGCCAAGCT | TATTCATTAT | GTTTCAGATG | ATTTTGATTC  | 781200 |
| TTTTTTGCTT | ATTTTGCAAA | AAATTGAAAA | AGATCTTGGA | TTTAAAAAGG | CCATAGTTCT  | 781260 |
| TTATGAGGAT | TTATTTGATC | ATTATTCCTT | GACTGACAAT | GTTGACGAGA | CAATAGAAAT  | 781320 |
| TTTAAAGGC  | ATTTTAAAAC | TTGATAACAA | AAATCATAAG | GCAAGAGAAA | ATTTAGTTAA  | 781380 |
| ATTTTTAAGA | GAAAGATATA | AAGATGTTAA | AAATATTGAG | GATTATCTTG | TAAAGTCTGA  | 781440 |
| TATTGAAAAC | TTAGATAAAA | ATTTTGTTGA | TGTATATTTA | GACTTTGAAA | AATATTTGTT  | 781500 |

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| TTTTGCAAAG | GGTAATTTTG  | TTTATCATCA | GACTTGGTCT  | GTTGGAATAG  | TAAGAGATGT | 781560 |
| AAATGATAAC | GGCATTACGG  | TTGATTTTGT | TTCCAAAAGA  | GGTCATTTTA  | TTGGTTTTGA | 781620 |
| TATGGCCATG | TCGGCTTTAT  | CTCCCCCTAG | CAGAGAGGAT  | ATTAGAGTAT  | TAAAGGCTGT | 781680 |
| AACACCTAAA | GAAGAACTTG  | CAGATAGAGT | AAAAAAAGAT  | ATTGAGTGGG  | CCATAAAGGT | 781740 |
| TATTATAAAA | AGTTATAAAG  | CTATTGATTT | AAAGGGAATA  | AAAAAAGAGT  | TAGTGCCAAG | 781800 |
| CTTGATGACT | CAAAGTTCGT  | GGAATTCATG | GAGCTTGAAA  | GCAAAGCAAA  | TTTTAAAGGA | 781860 |
| TAATCCCCAT | TTTGTTATGG  | ATTCTGGCAA | GCTTGATTGT  | TATATATATA  | ATGAGAGATC | 781920 |
| TTCCAATTTG | AATGAAAAAA  | TGTATGATAA | ATTTAAGATT  | GAGAAAGATT  | TTTATAAAAG | 781980 |
| ATACGAGATA | TTTATAAACT  | ATTGCAATGT | TAAGGGAATT  | GTTAAGGATT  | TGCATATTGA | 782040 |
| AGAAGAGATG | CTTAACCTATT | TTTTAATTTA | TGTTAACAAT  | TTTACAAAGG  | TTGATCATCA | 782100 |
| TGTTGTAAGT | TCTTACGTTA  | TTCTTAAATC | TTTAGGTAAT  | TTTTCTGAAG  | AATTGTCATC | 782160 |
| AAAAGTTAAT | ATAGAAAAAG  | ATGTTAATTT | AGAATCTCTT  | TTAAAAGAGT  | ATCCAAAAGG | 782220 |
| AATAGTGGAT | CTTTTTTGATT | CAATTTTGAA | TGCAGAAATT  | AAAAAGAAT   | TAGTTGTTTT | 782280 |
| AATTAAAGAA | GAACCTAGTA  | ATTGGATTTT | ATACTACAAA  | GAACTTTTTC  | CTCATTCTGT | 782340 |
| TAATAAGAGA | TTGGTTGAAT  | CACTTTACAA | AGAAGATCCC  | AGAGAGGTGG  | AAAAATTATT | 782400 |
| TAATTATGTT | ATAAAAAATT  | ATAAGATCTA | TAAAGATGCT  | TATATTTGGA  | TTTTGAAGCA | 782460 |
| CTGTAAAGCT | TATTCTATAG  | AGCTGAGTTA | TTCGGATTCTG | GATCTTTTGT  | CCAATTTGAT | 782520 |
| TAAATTTTAA | ACAGATAGTG  | TTATCAAAAT | TAATAATAAA  | AATAATTCTG  | TTGCAAGTAA | 782580 |
| AAGAATTTAT | AAAATGGTAA  | TTAATCTTTT | AGTTAAAGAT  | GGATATCTTA  | AATCGGTCTT | 782640 |
| AGAGGTCGTG | AGAGATGAAG  | AACTTGCAAA | AAGAGTTTAT  | ATGACTTGTT  | TTTATGTAAA | 782700 |
| AGATTTCCCC | CCAAAGGATC  | TTTTAGAGAT | TAAATCTATA  | ATAAGACAAT  | TATTTGATTC | 782760 |
| GGTTGAGTTT | GAAGATGAAA  | AGATGCAACT | TGCAGGCGAG  | AGAATGGAAA  | TTGGATTTTT | 782820 |
| AACCATATTA | AGCTCTTTGA  | ATAAAAAACA | AAAAGAGCTT  | AAATATTTAA  | AGGAAGTTGA | 782880 |
| AATTCCAGAA | AATTCAAAAG  | AAATTGGAAA | AGCTCGTGAA  | CTTGGTGATT  | TAAAAGAAAA | 782940 |
| TGCCGAATAT | CATTCTGCTA  | AGGAAAAACA | ACAGTTTTTG  | ACAAAAAGAT  | TAAACTCCTT | 783000 |
| AATGCTGGAA | ATAGAGAATG  | CAAAAGTTAT | AGATACTAAG  | GATCTTCAAA  | GTTCTGTGTG | 783060 |
| TGGTTTTGGG | ACCAAGGTTG  | TCATTTTAAA | TGAAGTTACA  | GGCAAAGATG  | AATCTTATTT | 783120 |
| AATACTTGGG | CCTTGCGAAT  | CAAACCCCGA | TGAAGGCATT  | ATTTTCATATA | AATCGCCTTT | 783180 |
| TGGAGAAAAT | TTGCTTGATT  | CTAGGGAAGG | GGATAGTCTT  | AATTTTGTTA  | TAAATAATAC | 783240 |
| TAATTTTAAA | TATTTTGTA   | AAAAAATAGA | ACCCATAAAA  | TTTAGCTAGG  | AAAAATTTAA | 783300 |



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| GAATGTCAAA GTTAAAGGAA AAAAGAGAAA AAGCTGTTGT TGGCATAGAA AGGGCAAGTA  | 783360 |
| AAGAGGAAGC TATTGAGCTT GCAAGAGTTC AAATAGAAAA AGCTTTTGGG AAGGGAAGTC  | 783420 |
| TTATTAAGAT GGGGGAATCT CCTGTTGGAC AAGGTATAAA AAGTATGTCA AGTGGATCTA  | 783480 |
| TTGTATTAGA TGAGGCTCTC GGCATTGGCG GATATCCTAG GGGGCGCATA ATAGAAATTT  | 783540 |
| TTGGCCCCGA GTCGTCTGGC AAGACTACTT TAACTCTTCA AGCGATTGCT GAGGTGCAAA  | 783600 |
| AAGAAGGTGG GATAGCTGCT TTTATTGATG CTGAGCATGC TCTTGATCCT GTTTATGCAA  | 783660 |
| AAGCTTTAGG TGTTAATGTT GCAGAACTTT GGCTTAGTCA GCCTGATACC GGAGAGCAAG  | 783720 |
| CTCTTGAGAT TGCTGAGCAT TTAATCAGAA GTGGTGGTGT TGATTTGATT GTAGTTGATT  | 783780 |
| CTGTAGCGGC TTTAACCCCT AAATTAGAGA TAGATGGAGA AATGGGAGAT TCTCAGATTG  | 783840 |
| GTCTTCAAGC AAGGCTAATG AGCAAAGCTC TTAGAAAGAT TACCGGTATA CTTTCTAAAT  | 783900 |
| CCAATACTTG CATTATGTTT ATTAATCAAA TAAGGATGAG GATTGGTGTT ATGTTTGGCA  | 783960 |
| ATCCTGAGAC CACTACCGGT GGAATGCTT TAAATTTTA TTCATCTCTT AGACTTGAGG    | 784020 |
| TTCGAAAGAT CGAACAAGTA ACTAGATCGG GCTCAAGCGA TGATGTTATT GGCAATAAGA  | 784080 |
| TTAGAGTTAA GATTGTAAAG AACAAGGTTG CTCCACCTTT TCGTAAAGTA GAATTGATAA  | 784140 |
| TTTATTTTGG GAAAGGTATT TCAAGAGAAG CTGGCATTTT AGATGCTGCT ATTAAGCATA  | 784200 |
| ATTTAATACA AAAAACAGGC TCATGGTATT CATTGGGAGA TAATAAGTTG GGACAGGGGA  | 784260 |
| GAGAGAGTGT TATTGAGTAT CTTAGCAAAG AAGTAGAACT TGCAAATAAT TTGGATAAGA  | 784320 |
| GGCTTAGAAA AATAATTTTT AATAATTTTG ATCAAGAGAA TGATAATTTT ATTGAATTTA  | 784380 |
| AAGAAGATGA ATCTGAGTAA TATGGAAAAT TTAAATGTCT GAATTGGGTA GTTACTCTAT  | 784440 |
| CAGCCTTGAT AATTTTACAG GCGGAATAGA GCTTTTTTTTT GAATATGTGA GTATGAATAG | 784500 |
| GCATGTTTTG AGAACTTTGA GTTTAAATCA AATAATTGAA GAATTTATAG TTGTTTCAGG  | 784560 |
| TGATCTTAAT ATAAGTATTA GGGGATTGAT CGATTTTTTTT TATCTTGCTA ATAATTTGTT | 784620 |
| TTATTGGAAA ACTCAAATTT TATTCCCACT GAAGTTTGAA TGCAAAGATA AAGCTGAGCG  | 784680 |
| CAAAGTTGTG GAAAGATTAA TATGTTATAG CAAGAATAGA GAAAATGAAA AATTACAATT  | 784740 |
| AAACCAAGCG AAAAATTTTA AATTCTATGA CTCAAAAATT ATTGAAGAGT TTATTTTGGG  | 784800 |
| CGATAGTGGC AATTTTATTA AAAATATTAA TGCTACTGCT AATGATAATA ATAAAAAGAA  | 784860 |
| AAATTTGAAG AGAAAGTCTG GTACATTGAA GAAAAAAGTT ATTAATAAAA ATTTTTTGTG  | 784920 |
| TGATAAAAAA TTAAAGCTG TTTACAATAA ATATGAATTG AAAATTTTTG AAAAAAGAT    | 784980 |
| GAAAATTATT TCTATTTTAA ATAAAGAGAG TAGCGTAATT TTTGATTCTC TTTTAGATTT  | 785040 |

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|------------|------------|-------------|-------------|-------------|------------|--------|
| TAATGCCGAT | AATTATTCTT | TTGAGAGATT  | TTCTTATTTT  | TTAGTATCTC  | TTGAGTGTAA | 785100 |
| AATGCTTAAT | ATTGTAAATT | TAGGATATTT  | GAATAATAAA  | TTAGTATTGT  | ATCGAGGTTG | 785160 |
| TAAAATTAAT | GATTGCACTT | AAAGCCCCCTA | GAGTTCACGT  | TTTTTTAGCT  | GAAAAGGGAG | 785220 |
| TGGGGTCAAG | AAGATTTTGC | GAGGAACTGA  | TAAGAAAGAA  | ACTTGTAAGA  | GTAAATAACA | 785280 |
| CTATTGCTAA | GCTTGGGGAT | AAAGTAACTT  | TAGGAGACAG  | AATAATTTAT  | AAAAAACAGA | 785340 |
| TTTTTGTTTT | TAAAGATTTT | CAAATTAATA  | ATAGAATTTA  | TCTAGCTCTT  | AACAAGCCTA | 785400 |
| GAAATTATTT | ATGTTCTAAT | TTTGATGTTG  | ATGGAAGAAA  | GTTAGCAATA  | TCTTTGGTTC | 785460 |
| AGCCCTTATT | TAAAGAGCGT | GTGTTTTCAA  | TTGGTAGGCT  | TGATTTTAAA  | AGCTCTGGAC | 785520 |
| TTTTATTATT | CACCAATGAT | GGTAAATTTG  | CAAACGATAT  | TATTCATCCA  | AGGCAAAAAG | 785580 |
| TTGAAAGAGA | ATATATTATT | GAATCAAAAA  | AAGATATTGA  | TGAAAATTTG  | CTTATTTCTT | 785640 |
| TTAAATCGGG | TATAAAGGTA | AAAAAAGAAT  | TTTTTTAAATT | AAAATCTTAT  | GAAATTTTAA | 785700 |
| ATAAAAATTC | TGCTAGATTG | ATTTTAGATG  | AAGGGAAAAA  | TAGAGAAATA  | AGAAAAGTGT | 785760 |
| TTTTGAGCAA | GAATATTTTT | TTAAAAAATA  | TTCATAGAAT  | TAGAATTGGC  | AATATTAATT | 785820 |
| TAGATAGTTT | AAAGGAGGGT | CAAGTAAAAA  | TTGTTCCCTT  | GTCTAAGATA  | AATAGTTTAA | 785880 |
| AATCCAGGCT | GGAGAAATTA | AATGATAATA  | GCAATTGATG  | GACCTTCAGC  | ATCAGGAAAA | 785940 |
| AGTTCAATTG | CAAGAGAGCT | TGGCGTAAGG  | CTGAACTATA  | AATTTATCAG  | CTCTGGGCAT | 786000 |
| CTTTACAGGA | TAATAACTTT | AATTGCTCAA  | AGATCTCTTA  | TGAATAGTTG  | CGATTTTATT | 786060 |
| AGTGAGGATA | GTCTTTTAAA | TTTGATTCTT  | GAGAATGATA  | TAAGTTTTAA  | TAATTTTGCC | 786120 |
| TTTTTGCTTA | ATGGAGAGAA | TGTTGAAAAT  | CAAATTTTAA  | ACGATAAGAT  | TGATTTTCAA | 786180 |
| GTTCCTTTTT | ATTCCTCTTA | TGTTGGAATA  | AGAAACATTG  | TGAATAAAAA  | ATTAAGAGAG | 786240 |
| GTTGTAAAT  | TTAGCGATGA | TAATTATATA  | ATAGAAGGTA  | GAGATATTAC  | TACTGTAGTT | 786300 |
| TTCCAGAAT  | CTGAATTTAA | AATATATCTC  | GATGCTTCTG  | TTAAAGTTCTG | AGCTTTGAGG | 786360 |
| CGATATAAGC | AAAGAAATGG | GAATGAGACC  | TTAGAAGAAT  | TAGAGCGTAC  | TCTTAAAAGA | 786420 |
| AGAGATGATG | TTGACAAGAA | AAAACAATAT  | GGTAAGTTAA  | AATTATCAAA  | AGGGGTTTTT | 786480 |
| TACCTTGATA | CAAGCTACAA | AGGATTAGAC  | GATGTGTGTA  | ATATTATAAT  | AGAAAAGTTT | 786540 |
| AATTTGAAAA | AAGTAAGAGA | GAGGTGAGAA  | TGGAAAATCA  | AAAAGATTTA  | CAAGAAAATT | 786600 |
| ATTTGAAAGT | ACTTGAAAGA | GTAGAACTTG  | GAAGTCGTGT  | TTCTGGGACA  | GTTGTTAACA | 786660 |
| TTATGAAGGA | TTATGTTCTA | GTAGATATTG  | GTTATAAATC  | GGAAGGCTTT  | ATTAAGATTG | 786720 |
| AAGAATTTGA | AAACGTTCCC | CAAGTTGGTG  | ATAGACTTGA  | AGCAATCGTT  | GTAAGAATAG | 786780 |
| GTGGAGAATT | AGGTCTTATT | TTAAGTGTTG  | AAAAGCTTAA  | TTCTTTAAAT  | TTTCAAGATA | 786840 |

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|------------|------------|------------|------------|------------|------------|--------|
| AAGTATATGA | ATATATTCAA | AATAAAAAAA | TAATTAAAGG | CAAGGTGCTG | GTTGAGCTTC | 786900 |
| CAAATGGTTA | TAAGATTCAA | ATTAATGAAA | ATGTTTCTGG | CTTTATGCCT | TTTTATTTAA | 786960 |
| GCTCTAAATC | TAAGGATGAG | AAATTAAAAA | GAGGGTCTGT | TGTTGAATTT | TATATTCTTG | 787020 |
| AAGCAAGCGA | AGCAGACGGT | TTGAGACTTA | TTCTTGATAG | ACGCACCCTA | GAAAAAGAAA | 787080 |
| GAGATCTTGC | TAAGAGAATA | GAGCTAGTTA | GTTCTTATAA | TGAAGAAGAT | GTAGTTGATG | 787140 |
| GTGTGGTTGA | GCGTATTACA | GAATATGGTG | CGATTGTAAA | AATTAAAAAT | TTTGTTACAG | 787200 |
| GAATTTTGCA | TAAAAGAAAT | ATTGCCTTTA | ATCAAGTTGA | AAATGTTGAA | GATTTTGTTA | 787260 |
| GAGTTGGTGA | TAAGTTAAAG | TTGAAAATTA | TTAAGATAAA | TCCACAAACA | GGCAAAATGG | 787320 |
| AATTGTCTCT | TAAGGCCTTA | AAAGCAAATC | CTTGGGATTC | TGTAGATGTT | AAATATAAAA | 787380 |
| TTGATAGCAT | TGTAAAAGGG | AAAGTTGTAA | AAATTTTACC | CTTTGGGGCT | GTTATTGAAC | 787440 |
| TTGACAGCGA | ATTGTCGGGA | TTTTTACATA | TAAGTAATTT | TTCTTGGATA | AGAGTAGTAA | 787500 |
| AAAGTCCTCA | AGAATTAATA | AAACTTGGCC | AGATTGTAGA | AGTTAAGATT | TTAGAGATAG | 787560 |
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| GATTAAGTGA | GAAATATCCT | ATTGGAAGGG | TTGTTCAAGG | AGTTGTTACT | AATATTACAA | 787680 |
| AAACAGGTGC | TTTTGTAAAT | ATTGAAGAAG | GTATAGATGC | TTATGTTAGT | AAGTTTGATA | 787740 |
| TTTCTTGGCT | TGAAGAGATT | GATCCTGAAG | AATATTTCAA | GATAGGCGAT | TTAGTGAATG | 787800 |
| GGAAAGTGCT | TGAGGTTGAC | AAGAGAAAGA | GAAATGTTAG | ATTAGGAATT | AAGCAGCTAG | 787860 |
| AAGAGAGCCC | CTGGGAAGAT | TTTTCTAAAA | GCTATAAAAA | AGGCGATACT | ATTGAGGTTG | 787920 |
| AGATTGTAGA | GAAAAAATCA | AAAGGCTTTC | AAGTAAGAGT | TTATAATAAA | ATAATGGGAT | 787980 |
| TTATTAGTAA | AATTCAATTG | GGGGATACAA | AAGAATCTAG | TTTAGAAACT | TTCGAAAAAT | 788040 |
| TAAACGTTGG | AGATAAGCTT | AAAGTGGTAA | TAACAAGTAT | TGATTCTAAA | GACAAATCAG | 788100 |
| TGCTGCTCTC | TTATAGGGAG | TATGAAAATC | AAAGATCAAG | AGAAGAAATT | TCTTCTTATT | 788160 |
| TATTTAAGGG | CAATGATGAG | GAATCTTACA | AGCCATTTGA | GAATTTGCTA | AAGAGGGATG | 788220 |
| AATAATGGCT | AAAAATAATC | TTTTAGTTTT | CTTTATTGCT | ATTATTTTTG | TGTTTGTGTC | 788280 |
| TATTATTGTT | GTTTTTTATA | ATTCTTTAGG | CAAGGATTAT | GTAAAGAGTG | GCGGAGAAAT | 788340 |
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| TGAGGCTATT | AAAGATTTAG | ATATTGTTAT | TAAGGCAAAA | GGTATTGAAA | GTGAAATTGC | 788580 |

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| TTATGAAGAT CTTATCAATA GTACTAGTTT GGATTTTTTTA AAGGTAAGAG CTCTTTTGAG  | 788700 |
| TAAGGCAATA TTGATTGAGG AAAAAAGATAA AGAGCTTGCT GTGAAAGTAT ACGAAGAGAT  | 788760 |
| TGTTAAGTTT CCGTATGAAA ATAATTTATA TATAAATATG GCAAATAATA AAATTTTAGA   | 788820 |
| ACTTAAGCAA AATTAATCTG TATTTTTGGG GGAGGTTTTA TAATTTTTTT TATCTTATAT   | 788880 |
| TTTGTATTTT GTATGGGGTT TTTTGGATGT GGTCTTGACA ATATTTTAAT ACTTCCTTCA   | 788940 |
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| TATTTTTCTA ATCAAGCAGC TGGTAAATTA AGAGGTTTTG ACATATATTA CAAATTTTAT   | 789060 |
| CCAGAAGGTG CCAATTATCA CATAAGTAGT TTCCAGAAAA GCGTAGAGAA AGATTTTGAA   | 789120 |
| GCCTTAAAGG GTGTTTTTGA CAATGTTAGT GAATTTAATA ATAGAGGGTT TTATAAAATA   | 789180 |
| AATTTGAGTT CTA CTACTGTTT TCGGGTAAA CCTGTTTTTA AATTAAATAA AGAATGGGTA | 789240 |
| GATAGTAAAT TGCCTTTATA TTTTGAAATA AATTTTGAG AATTAAGAAA GGATGTTTCT    | 789300 |
| GGTGAGGCTT TCATTACTGT AAAAAATGGG AATACTTCTT CATCTGTTAT TCTTGAGAAG   | 789360 |
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| TTTCCTATTT TGGGGTCGGT TATTTTAATA GGTTCGATTA AATTCCTCTGA AAGAAATAAG  | 789900 |
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| CAATTTTAGA | ATCTAAAAAT  | CAAGAAATAA | TGGAAGCTTA  | AATCCATGAA  | TAAAGGTTCT | 792360 |
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| TTAGACAATC | CAGAACTACC  | CGATCTTGAT | CTTTTAATAC  | GTACAGGCGG  | AAATATTAGA | 792900 |
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| TGGCCTGAAT | ATTATGACAC  | TAGATATAGT | AAGGATTTGG  | AATGTTTCCA  | ATTTAGAAGA | 793020 |
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| GGGAACATTT | CTATTTTTTG  | TTCTTTTGAT | TTTATTTTTA  | ATATTTTTAG  | ATTTTAAAAA | 793140 |
| TTATTTATTC | CTTAATATTT  | TAATTTTTAT | ATTTAGTGGC  | TTTGCGGCAA  | AAGAAGTTAA | 793200 |
| TGATTTATTA | AAATTAAAAAT | TCAAATTTTC | AGGACTTTTCG | AGTATATTAT  | CTTTTTTTTT | 793260 |
| AGGATTTGCT | CCCCCAATTT  | TAACATATAT | TCATTTTAAT  | GTTTTTTTATT | TAGGCATGAA | 793320 |
| TGTAATATAT | TACTTGTTTA  | TAGCGTTAGT | TTTTAGCAAT  | TGGATTGTTG  | ATTTGGTGTT | 793380 |
| TATTAAAGAG | CATGAGATTG  | GAAACTTTTT | GTCTCAAGCA  | ACGTCAATAC  | TTTTTATACT | 793440 |
| TATATATCCT | GGGGTATTAA  | TGTCTTTTAC | GGTTTCTATT  | ACAACCTTAC  | CCAAGGCACC | 793500 |
| ATTTTTAATG | TTAATGCTTT  | TTGCTATGGT | AAGTGGAAC   | GATACTTTTG  | CATATCTTTT | 793560 |
| TGGTTATTTT | TTAGGGAAAA  | ACAGTTATCG | TCCCACTATT  | ATTAGCCCAA  | ATAAACATT  | 793620 |
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| TGGGAAAATC | GTTCCTGGTA  | GAGGCGGAGC | TCTTGATTCG  | ATTGACTCTT  | TTCTTTTAAC | 793860 |
| AGGCCCGATA | TTTTATTTAT  | ACCTATCTTA | GTGATTTTTG  | GAGGAAATTA  | TGTATATTCT | 793920 |

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| TAAGCTTAAG  | GGATTTGATC | ACTTAGAAAA  | AGAGCTTAAG  | GCAAATAAAG  | AATTAGAAGC  | 794160 |
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| TTTGAAAGGT  | CTTTTAAATA | TATTTAATTA  | AAAATTAGAA  | ATGTATTTTA  | GCATAAGCCA  | 795240 |
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| TGTTGTTCCA  | ATGATAGACA  | AAATAATTCC  | AAAAAGATGC | GAGATTGAAC  | TAAAAAGCTC  | 795840 |
| ATTTTTTGGT  | ATTTTGCTTG  | TATTAACATC  | GCTTAACGAG | TAATTTTTTAA | GTTTATTTTC  | 795900 |
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ATGTATAAAG ATAGGGATAC AAATCAAAGA GATTCAAGAT TTGAAAATCA GCAGGATGGC 798900  
TTTAAAAAAA ATTCAAATTT CAGATTTTTT AAGAGAAAGT CATGTAAATT TTGTGATTCT 798960  
GGTAAACATC CTGATTATAA GGATTTTGAT TTTCTTAAAA AGTTTATTAC CGAGCAAGGT 799020  
AAAATTTTAC CCAAAGAAT TACTGGAAGT TCTGCTAAGC ATCAAAGACG CTTGGCATT 799080  
GAAATTAAAC GGGCAAGATA TATGGCTTTG TTGCCTTTTG TAAAAAATA ATTATTTGGG 799140  
GGGTAATTAT GAAAGTGATT TTAAAGGAAG ATTTTATTAA TCTTGAAAA GAAGGAGATA 799200

|            |             |             |            |             |             |        |
|------------|-------------|-------------|------------|-------------|-------------|--------|
| CTGTAGAGGT | AAGAGATGGA  | TTTGCAAGAA  | ACTATTTACT | ACCCAAGGGT  | TTTGCAGTTT  | 799260 |
| TTTCAAATAA | ACATAATATT  | GAGATTTTTA  | ATCAAAAAAG | AAGATCAATA  | TTGAAGAAGC  | 799320 |
| AAGAAGCAAA | AAAACAAATG  | GCCAACGATC  | TGAAATCCAA | GCTTGATCTT  | GTAAATTAG   | 799380 |
| AATTTTTTAT | GAAATCTAAT  | GATTCTGGCA  | AATTGTTTCA | TAGTATTAAT  | AGTTTAAATA  | 799440 |
| TTGCTGATGA | ACTTTTAAAA  | CTTGGTTTTG  | ATATAGAGAG | AAAAAAAATA  | GATATACATC  | 799500 |
| ATGGAACTTT | AAAGACTTTT  | GGAAC TTATG | ATGTGACAAT | TAAGCTTTAT  | GAAGGTATTA  | 799560 |
| GCTCTATTAT | TAAAGTAGAG  | ATAAAAAAAG  | AAAAAAGCA  | AGAGGATAAA  | AAGTCTTTAA  | 799620 |
| GTAAAAAGTT | GAATAAAGCA  | GATGAGCAAG  | GTGAAAGAGC | AGAGGTGTAG  | TTTGTGGCTT  | 799680 |
| TAGCAGCTTT | TTCGAATTCT  | GCACTTCTTT  | TTAATGATGG | TGCAGAAAAA  | GCGGTAATTT  | 799740 |
| CTAGTATATT | TTATAATTCA  | GATAAGATAG  | AGCAAATTGC | TTTTCATGTA  | AGAGCTGATG  | 799800 |
| ATTTTTACAA | TGAAACTCAT  | AAGTTGATTT  | TCAAAGCAAT | GGTTTCGCTT  | TATGAAAAAA  | 799860 |
| GGGAAAATAT | TGATCCTATT  | ACTGTTTTTG  | AAGAAGTATC | TAAGCATGTT  | TCAAAAACGC  | 799920 |
| AACTTTTGAT | TAAAAAAGAT  | TTAATCAATT  | TGCCTGATTA | TTTAGATTCA  | CTTTCAGTTT  | 799980 |
| ATTTGCCAAC | AGATAGAACT  | ATAAATGTTT  | ATGCGAAAAT | TGTAAAAGAA  | CAGAGTG TTC | 800040 |
| GCAGAAGCAT | TTTAAATGTT  | TCTAAAGAGC  | TTAATGACTA | TATAAATGAT  | TCTACAAAAT  | 800100 |
| CTATTAATGA | GATTGTTGAA  | GAATCTCAAC  | AAAAGATTCT | TTCAATTGAG  | TTAGATTATT  | 800160 |
| CTAGTAAGAA | CCTCTATCAT  | GCTAAAGTTA  | TTGCAGAACG | TGTTCATAAT  | GAGATATATG  | 800220 |
| AGCGCAGCAT | GAAGAAAAAA  | GAAGCAA ACT | TTGGCATTCC | AAGTGGCTTT  | AGAAAGGTCG  | 800280 |
| ACTCTCTTAT | TGGGGGATTT  | AGAAATAGTG  | ATTTTATTAT | AGTTGGTGCT  | CGTCCTAGCA  | 800340 |
| TCGGTAAAAC | GGCATT TGCT | TTAAATATTG  | CTTCTTATAT | AGCATT AAGA | AAAGAAGAAA  | 800400 |
| AGAAAAAAGT | AGGATTTTTT  | TCCCTTGAAA  | TGACAGCAGA | TGCTTTAATA  | AAAAGAATAA  | 800460 |
| TATCTTCTCA | GTCTTG TATT | GATAGCTTTA  | AAGTTCAAAA | TAGCATTTTA  | TCTGGACAAG  | 800520 |
| AGATAAAATC | ATTAAATGAT  | ATTATAAATG  | AAATTAGTGA | TTCTGAGCTT  | TATATTGAAG  | 800580 |
| ATACTCCCAA | TATTAGTTTG  | CTAACTTTGG  | CAACTCAAGC | TAGAAA ACTT | AAGCGATTTT  | 800640 |
| ATGGTATAGA | TATAATATTT  | GTTGATTATA  | TCAGTCTGAT | TTCTTTTGAA  | ACAAAAAATC  | 800700 |
| TTCCAAGGCA | TGAACAAGTT  | GCTTCGATTA  | GTAAATCTCT | CAAAGAGCTT  | GCTAGAGAGC  | 800760 |
| TTGAGATTCC | TATTGTCGCA  | TTATCTCAGC  | TTACAAGAGA | TACGGAAGGG  | CGTGAGCCTA  | 800820 |
| ATCTTGCTAG | TCTAAGGGAA  | TCAGGAGCAT  | TGGAGCAAGA | TGCTGACATT  | GTAATTTTAC  | 800880 |
| TTCATAGGGA | TAAGGATTTT  | AAATTTGAGT  | CTTCTGCTGA | GATAGAACCA  | ATAGAAACCA  | 800940 |
| AGGTTATTGT | AGCAAAACAT  | AGAAATGGCC  | CTACAGGTAG | GGCAGATATA  | TTATTTTTGC  | 801000 |

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|---|--------|
| CACACATTAC TAAGTTTGTGTT AACAAAGACC ACCAGTATTA GTTGTTATTT AACGACTATT | 801060 |
| CCAATTCCTA AATAATTAAA GTTAATAGAA TGTTTTTCTA ATTTTTTTTC ATCTAAGTTA   | 801120 |
| TAAGCTATAG GAATATAGTT AACTTTTGAA TATATTTTGA AAATATACTC AGTGTTGCGG   | 801180 |
| TATTTTAGCA TTTTGAACAA AAATCCTAAT TCATTTTCAA TTCCAACCTG AAGAATGTTT   | 801240 |
| TTTATTCTTA TTGGTCTTGA GATGCTTTTG ATATCTTTAT TGTTTTGATT ATAGGCAAAA   | 801300 |
| AATAATCCCG AAATTAGGTA AGGATTGAAT GTTTTTTGTG GTAAAAATTC ATACATGATG   | 801360 |
| CCTGATGATA ATTGATTTGT AAAGCTATTA GTTTCATTAT AATTAGTGTA ATAATTTGTT   | 801420 |
| GATATTGAAA AGTAATGGTT GATGTTTTCA TTTATTTTAT AAAATAATGA ATTTCTTATT   | 801480 |
| TTTAATGGGA TCATAATATC AAATCCAAAG TAAAAATTAT TACTTATAAC ATTAAATTCA   | 801540 |
| TTATTTGATT CTGATATTTT TTTGTATTCT TCAGGTGTAA TGATTATTCC AAATCCCCCA   | 801600 |
| ACGCTTAAGA AATTTTCTTT GGTGAAAAA TTTTAAATGT TTAAATTATT GGTATGAAA     | 801660 |
| AAATTTTGTAG AGTAAATTG ATAATTTATT CCAATTCCTG TTTCTGCTTC TTGTGTTTTT   | 801720 |
| GAATATGTTT TGAGGCTTTT GATTTGATTT TGAATTTGGG AATAAAGTTT TATATCAAAT   | 801780 |
| CCAATATTTT CATTTTTTAA GGTAATTCCA ATACTGTTTT TAATAAAATA ATCTGCAAAA   | 801840 |
| TAAGATAAGT CCATATAATT TTCTAAATTT AAAAAATTCA TGTAAGAGTA ATTTAGAGCA   | 801900 |
| AAGCTTAAAA ATCCTCTATA ATTGTAGCTG TCGTAGCTTT TTATACTTGG AATTGGACGG   | 801960 |
| TGTTGATTTA AAATGAGGTG AATTATGCTT TGCATTAAAT GCCCTCCCCA GTCTCCAAAT   | 802020 |
| AATAAGTTTT TAACTCCAAT TCCCAAGTCT ATTTCTCCAA AATTTTTTCC ATTAATTAGC   | 802080 |
| AATAAAATTG GAAATAGTA CATGAAGCCT ATTTCAATTA AGTCTGTTCT ACTAATTAAA    | 802140 |
| GATTTCCGAG AGTCTTTATA ACCCCTATAG GTTAACATGT GTGCTTCTAA ATTTATTATA   | 802200 |
| AAATTGTATT TTGAAACATA GGTAAAAATA AGAGAACCAC TTCTCAAGTC ATCAAAAAA    | 802260 |
| TCGCTTAATG AAAATCCGAA TCCATCATTT AGTATTTCAA AATAATATTT GTCAATACCT   | 802320 |
| TCATTTTTAT ATTGGATTGC ATAATTATAA GAATAAACTT TTAAATTAGA AATTATAAAT   | 802380 |
| ATTATTAAAA ATATTTTTTT AAACCGCATT TTAAAATTAT AACATTTTAG CTTGTTTATT   | 802440 |
| AAATAATTCA GGTAAATAG TTTATTTTTA TTAAATAAAC TTAGTTTTTA TATGATCTAT    | 802500 |
| TGTATTGTAT AATTCAATAA GTTTATTAAG ACTTTAGGAG TAATTGTGAT AAAAAAGGTA   | 802560 |
| GCTATTATTG ATGGACTTAG AACACCCAAT TTCAAGTTTG GAGGTTCTTT TAAGGGTTTA   | 802620 |
| AATATTATTG ATGAATCTTC AAAAGTTGTT AAAGCTTTGC TTGAAAGAAA TAAGTTATAC   | 802680 |
| AAAGTGGATG AGGTTATTAT TGGTAATGTA ATATCTGCGG GACTTGGTCA AAATATTGCA   | 802740 |

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|------------|------------|------------|------------|------------|------------|--------|
| AGACAAATTG | CTTTAAAGTC | TGACTTAGGC | GATACTGTGC | CTGCATTTAG | CGTTAATAAA | 802800 |
| GTTTGTGGTT | CTGGGCTTAA | GGCCTTGGAG | CTTGCATTTA | ATTCTATTGC | CCTTGGAGAC | 802860 |
| AATGATATTG | TTTTAGCTGG | AGGAGTTGAA | GATTTAACCA | ATTCTCCTTA | TTTATTACCT | 802920 |
| AGAAAGATTA | GATTTGACGG | TCTTAAATTT | GGTAATTTTG | GAATTGAAGA | TTCAATCCAA | 802980 |
| AAAGACGCCT | TAATAGATTC | TCTGAATTTT | ATTTCTATGG | GGCTTACGGC | TGAAAATCTT | 803040 |
| TCAGAAAAAT | ATAGAATAAC | AAGAGAAATG | CAAGATGAAT | TTGCATATAA | TTCTCATGTA | 803100 |
| AAGGCATTAA | AGGCAAGAGA | GCTTGGATAT | TTTGAGGATG | AAATTTATCC | CCTGACTGTT | 803160 |
| TTTGATAAGA | AGACCAACTC | TAGCGTAACT | ATCTCAAGTG | ATGAGGAAAT | AAGAGATAAT | 803220 |
| TTAACTTTAA | ATAAGCTAGC | ATCTCTTAAT | CCTGTTTTTA | AAGAATCAGG | CACAGTAACT | 803280 |
| GCCGGAAATT | CTTCAAGTTT | AAATGATGGT | GCTTGTTTTT | TAATTTTAGC | AAGTGAGGAA | 803340 |
| AGAGTAAAAA | GCTTGGGGTT | AAGTCCATTA | GCTTATATTG | GAGGATTTAA | AAGCGTGGGG | 803400 |
| CTTGATCCAC | TTTATATGGG | TTTTGGAGCT | TATATGGCTA | TTGAAGGCAT | TATTAGTAAA | 803460 |
| TTAAGTTTAA | ATCCTAGCGA | AATAGATTTG | ATTGAGGTAA | ATGAGGCATT | TGCAGCTCAA | 803520 |
| GCATTAAGCA | TTGAAAAGGC | CTTGTTTAAA | AAATACAATA | TAAGTAGCGA | TATTATTAAT | 803580 |
| GTAAATGGTG | GTGCTATTGC | TTTGGGGCAT | CCATTTGCCG | TTAGCGGTTT | AAGAATTTTA | 803640 |
| TTAACACTTT | CTCGCTCTAT | GAAAATGAAG | AATAAAACAA | AAGGGATAGC | ATCTGTTTGT | 803700 |
| ATTGGTGGCG | GACAAGGAAT | TTCTAGTTTT | TTGTATAGAT | GAAAATGTTT | TATTAAGTAG | 803760 |
| ATTTAAATGT | AAAATTTTGT | TAAATTAGTG | GGTAAGTGAT | TCTTTAATAA | GAGGTATGT  | 803820 |
| TATGAAGAGT | TTTTTATTTT | GGGTAATATT | GGGAAGTATA | GGGATTAGCT | CTTTTGCTCA | 803880 |
| AAATACTCCT | GTTGCTATTA | TTAATTTATA | TAAGAATGAA | ATTATTACTA | AAACTGGTTT | 803940 |
| TGATTCTAAG | GTTGATATAT | TTAAAAAGAC | CCAAGGTAGA | GACTTAACTG | ATGCTGAGAA | 804000 |
| AAAGCAAGTT | CTGCAAGTTT | TAATAGCAGA | TGTTCTTTTT | AGTCAAGAGG | CTTCAAAGCA | 804060 |
| AGGAATTAAA | ATCTCAGATG | ATGAGGTTAT | GCAAACAATT | AGAACTCAAT | TTGGGCTTGT | 804120 |
| GAATTTTACT | GATGAACAAA | TCAAGCAAAT | GATAGAAAAA | CAAGGTACAA | ATTGGGGCGA | 804180 |
| GCTTTTGTCT | TCAATGAAAA | GATCTCTGTC | TTCTCAAAAG | CTTGTTTTAA | AGCAAGCTCA | 804240 |
| GCCTAAGTTT | TCTGAAATTA | AACTCCTAG  | TGAGAAAGAA | ATTGTTGAGT | ATTATGAGGC | 804300 |
| TAATAAAACT | AAGTTTGTA  | ATCCCGATAT | TTCAAGAGTT | AGTCATATCT | TTTTTTCTAC | 804360 |
| TAAAGATAAA | AAAAGATCAG | ATGTTTTAGA | TCAAGCAAAA | AATATTTTAA | GCCAAATAAG | 804420 |
| ATCAAAAAAA | ATTACTTTTG | AAGAAGCTGT | AAGAAAATAT | TCAAATGACG | AATCTTCTAA | 804480 |
| GGCTAAAAAT | GGTGATCTTG | GGTTTTTATC | AAGAGGTGAT | CAAAATGCTC | AAAATCTTCT | 804540 |

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| TGGAGCCGAT  | TTTGTGAAAG | AGGTTTTTAA | TTTAAATAAG | GGTGATATAT | CTTCGCCTAT  | 804600 |
| TGCTTCAAAG  | GAAGGGTTTC | ATATTGTAA  | AGTTACAGAA | AAATATGCTC | AGAGATTTTT  | 804660 |
| AGGTTTGAAT  | GATAAAGTGT | CTCCTACTGC | AGATTTGATT | GTCAAAGATG | CAATAAGAAA  | 804720 |
| TAACATGATT  | AATGTTCAAC | AACAGCAAAT | TGTTGTTCAA | GTACAGCAAG | ATATGTATGG  | 804780 |
| TAAGCTTAAC  | AAGTCTGCAA | ATATACAAAT | CTTGATTCT  | AGTCTAAAAT | AAAACATATT  | 804840 |
| TTTATTTATA  | TAATTTTATT | ATGGATTTAA | TGCATGAAGT | TAGAGTTTTA | GCTTTTCAAA  | 804900 |
| AGATTTATAG  | CATTGATATT | AATCAAAGCG | CAATGGACGA | TATTTTGTAT | ATTTTAAATA  | 804960 |
| TTGAAGATAA  | AGATTTAGAC | ATAGAAAATG | AGTCTATTAA | GTCGTTTTAC | TCTTCTTTGG  | 805020 |
| TAATTGGTAC  | TTTGTATAAT | TTAGAGCATA | TTGATAGCCT | CATTAGGGAT | ATTTCTTTGA  | 805080 |
| ATTGGTCTTT  | AGAACGCATG | GATAAGGTTG | ATCTTGCAAT | ACTTAGGATG | GGCGTCTATT  | 805140 |
| CTTTGAAGTT  | CCAAAATTTT | GAAAATTCAA | AACGTGCTAT | AATTGATGAG | GCAATTTTGA  | 805200 |
| TTGCCAAGAA  | ATATGGCAGT | AAAACTCTT  | ATAAGTTTAT | AAATGGTATA | CTTGATGCTT  | 805260 |
| TGCTTAAAAA  | TATGGAGAGT | GGTATTGAAA | AAAAATAAAA | CTTTAGTGTT | CATTTCATTA  | 805320 |
| TTCTTATTAT  | CAGTTTTTTT | AGGTGGCTTT | TATTTCTATT | TCGATCCCAA | TATTTTATAT  | 805380 |
| CTTCTAAAAG  | GTGAGAAAGA | TTTTAGCAAA | CTTATTATGG | GAATTGATTT | TTATATTGAT  | 805440 |
| AAAAAAAAAT  | TTGCTGATGC | TAAAAAGCA  | ATGCTATTTT | CATCATATTA | TGCTAATACT  | 805500 |
| GAATTTAAAT  | GGCTAGCCCT | TGCTAAAAGA | GCTAACTTT  | GGGCTTTAAA | TACAGGTGAT  | 805560 |
| TATCATCTTA  | TGGGGGAAAT | AGTAAATCTT | GGTGTTAAAG | TTTTGCCGGG | GAATTTGAAA  | 805620 |
| TTAAGAGCTT  | TGGAAGTTTA | TTCTAAGCTT | AAAATTGGGC | TTTTAAAAGA | TGCTTATAGA  | 805680 |
| ATTGCAAATG  | AATATCTTTT | AAATAGCGAA | GAGTATCAAG | GTCTTTATGA | TGAAGTTTTT  | 805740 |
| ATTAAAAATT  | TAAGTTCAGA | TAATGGTATT | TTAGATTTTA | ACAAATTTAT | TGATAAAATC  | 805800 |
| TATAAAGAAA  | AGGATGCTCG | TATTTTTGAA | GAGATAGGTT | TAAATCTTAA | AAATAATGCA  | 805860 |
| TTTTTAATAA  | ATGCAATGCT | TTTGTATATA | GAGAAAAAAA | ACATAGATTC | TGCTAAGCGT  | 805920 |
| ATACTTTTTTA | GAATCAAAGA | AGACAAAAGT | TTTTTAAAAG | AACTTGCATA | TATTTTCATAT | 805980 |
| AATCTTAATG  | ATTTAGATTA | TACAATTTCC | AATCTTAAGT | CCATTAAAAA | TGAAGAAGAT  | 806040 |
| CCCACTTTAC  | TTTTTTTGCT | TGCCGATGCT | TATTTTAAAA | AAGGAGATAT | TAAGAATGCT  | 806100 |
| AAGAATGAAT  | ATTTAAAGCT | TTATAACAAG | TTTCCTGATT | ACAATGTTCT | TGTTTATTTA  | 806160 |
| AATCTTGCAC  | TCATAGCTAA | TAGTGAGAAT | GATTATAAAA | GAGCAATTTT | TTATTTAAAT  | 806220 |
| AAGGCTAATG  | AGGTATTTAA | AGATAATAAG | ATAATAAATT | ATTATTTAGC | AAACATATAC  | 806280 |

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| TTTGGAATTA AAAATTATTT TAAAGCTAAT GAAATTATAG CTAATTATAA GGAAGATCCG  | 806340 |
| TTATTTTTTA AACTTTATTT TGCATTAAAT TATGCAAATT CTAAGTATGA GGCAAAAAAA  | 806400 |
| TCTTATTTGT GGCGATTATT TTATAAGACT GAGTATAATT CTAGTATTGC TCAATTTTTG  | 806460 |
| GCTTGGAATT TGCTACTTTA TTCAGATTTA AAGGACTTGG ATTTATTTTT CAGAATTTAT  | 806520 |
| AATTTTTCTG AAAATAAACA AGATTGGTAT GATTTTTATA AATTTTATTA TTATTTTCCTT | 806580 |
| AAAAGAGATT TTATTAGTTC AAAAAAGATA ATTTTTGACA ATAAATCTCA AAAATATATG  | 806640 |
| TTTGGAATTT ATTATAATCT TGGAGTTTTG AGCTTTTCTG AAAAAGACTA TGAAGAAGCG  | 806700 |
| GAAAGATATT TTAATAAAGG AATATCTTTA TTGCCTAGTA GTTTTTACGA TAAAGATTCT  | 806760 |
| ACTACCCCT ATGAGCGTGA GCTTGTATCA AAAATCTACT TAAAACAAGG AATTAATTAT   | 806820 |
| CTTTATTTAG GAAAAATGGA AAAAGGCAAA GAGTCTATTT TGGCTTCTTA TTCTTTTTAC  | 806880 |
| GAAACCGATG AAGGAAGGCT TTATAAAAAAT ATGATAGATA CACTTAGAGA AAGGAATTTG | 806940 |
| AATTTTGACT AAAC TAAGAT TGAAATCTAA AGATGAGATT AAAAAATAA AAGCTTCAGC  | 807000 |
| AAGTTTGTTA GCGCTTACTT TGTTAGAAGT TGAGAGAAAT ATTGTTCCCTG GTATTAGCAC | 807060 |
| CAAGGAGCTT GATTTGATAG CCTATGATTT TATTATTAAA AATAGAGCTA AGCCTGCCTT  | 807120 |
| TAAGGGATAT CGTGGGTTTA AGGGCACTAT TTGCGCATCT GTTAATGAAG AGGTATTCA   | 807180 |
| CGGCATTCCC GGAAAAAGAA AATTAGCGGA TGGGGATATT GTTAGTATTG ACTGTGGGGT  | 807240 |
| TATTCTTGAT GGGTTTTATA GCGATATGGC AAAAATTTTT AAGGTTGGAA ATGTAGATTC  | 807300 |
| TAGTATCGAT AAATTTTTAG AAGTTACAAA TGCCTCTCTT TACAAGGGTA TCGCTGAGAT  | 807360 |
| GAAAGTTGGA AATAGAATTT TAAATATATC AAAGGCAATA GAAGATTATA TAAAGCCGTT  | 807420 |
| TGGTTTTGGA ATAGTTAGAG AATATACAGG CCATGGTGTT GGATTTGAAC TTCACGAAGA  | 807480 |
| ACCAAGTGTT CCAAATTATT ATGCTCCTTT TTTTAAAAAT ATTAGAATTC AAGAGGGTAT  | 807540 |
| GGTTTTGGCT ATTGAGCCTA TGGTAACTT AAGGGGGCAC AAGGTTTCAA TAAAAAGTGA   | 807600 |
| TGGTTGGA CTGATCTTAG TTATCTGCA CATTTTGAAC ATACTGTTGC                | 807660 |
| TGTTGTTGAT GGATTGCCTT TAATTTTAAG TGAAGTTTAA ATTTTAAATT AATCAAATAT  | 807720 |
| TTAAATATTA TTTATAAAAT TGAGTAATTA TGTGGAGGTT ATAAAAGTGG AAAAAAGTT   | 807780 |
| TTTTTCTGGA TTTCTTCTTA GTTTTTTGGC TTTGAGTATT GGATTTTTTA TTGGGATGCA  | 807840 |
| TTATTTAGCT TCTAATAGAA GCAACATTGT TTTTGCAGAA GAAAAGGACA ATACCGTACG  | 807900 |
| AGCCTTACAA GATTCTTTTA GAGAGGTTTC CAAGAAAATT TTACCATCAT CTGTGGAAGT  | 807960 |
| TCATGCAACA GGGGTAATCA AGCAGAGTTT TCCTATTCCA TTTTCTTTT TTGATATGCC   | 808020 |
| AGAATTTGAT TCTGAGAGAA AAAGCAATTG GGCGGGGTCT GGAGTAATAA TTGGTAGAGA  | 808080 |

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|------------|------------|------------|------------|------------|------------|--------|
| TTCTCAAAAA | AAATCATTAT | TTTATGTGGT | TACGAATAGT | CATGTGGTAG | ATAAGGCAAC | 808140 |
| TGAACTTGAA | GTTGTATCTT | ATGATAAAAA | AAAGCACAAG | GCTAAGTTAA | TTGGCAAAGA | 808200 |
| TGAAAAAAG  | GATATTGCCC | TTATTAGCTT | TGAAAGTGAT | GACGCAACTA | TTAAAGTAGC | 808260 |
| TGATCTTGGA | GATAGTGATA | AGCTTGAAAT | AGGTGATTGG | GTTATGGCAG | TGGGCAGCCC | 808320 |
| TTTTCAATTT | AGTTTTACAG | TTACAGCAGG | TATTGTAAGT | GGATTGCAAC | GTTCTGCAAA | 808380 |
| TCCTAATTTG | CAATCAAGGA | ATCTGTTTAT | TCAAACCGAT | GCTGCAATCA | ACAGGGGTAA | 808440 |
| TTCAGGTGGT | CCTCTTGTA  | ATATAAAGGG | CGAGGTTATT | GGAATTAATG | CTTGGATAGC | 808500 |
| TTCAAATTCT | GGCGGAAATA | TTGGGTGGG  | TTTTGCAATT | CCTGTTAACA | ATATTAAAAG | 808560 |
| CACTGTAGAT | TTTTTCCTTA | AAGGTAAAAA | AATTGAATCG | GCTTGGCTTG | GAATTTCTTT | 808620 |
| TTATCCGCTA | AAGACAAGAG | ATTCTGAGGT | GCTAAAAAGC | TTAGGGGTTG | AAAGTAATGA | 808680 |
| TGTTTCAGCT | GCAATTATTG | CTTCTCTTTA | TCCGGGTTCA | CCCCTGTGTA | AATCAGGGCT | 808740 |
| TAGGGCAGGG | GATATTATTA | TGAAGGTAA  | TGGGGTTTCC | ATGAGCGTTT | TTCAAGATGT | 808800 |
| TACATCATAT | ATTAGTGATT | TTTATGCTGG | TGAGAAAGTA | AATGTAGAAA | TCTTAAGAGG | 808860 |
| CAATGTCAAA | AAAAATATTG | AGATTGTTCT | TGCTGTTAGA | CCTAAGGATA | AAGAGCTTTC | 808920 |
| TTCTTCAAAG | ATGCTTCCAG | GCTTTGTTGT | GTATCCATTG | GTTGAGGATA | TTAAAGCTCA | 808980 |
| GCTTAATTTA | AGAAATTGGA | TTAAAGGTGT | TGTTGTTGAT | TATATTGATA | AAAATTTAGC | 809040 |
| ATCAAATATT | AAAATGAAAT | CAGGAGATGT | AATTCCTTCT | GTAAATTCAA | AAAGTGTTTC | 809100 |
| TAATTTAAGA | GAATTTTATG | ATGCTCTTGA | GGTTGGAAAA | AATACTTATA | AAATTTTGAG | 809160 |
| AGGAAACGAT | TCTTTTAAAA | TTACATTTTA | GTAAATTTTA | GTTTTGGGTT | AAGAGTTGAT | 809220 |
| CTTAGCCCTT | TTTTGTTTTA | CATATAATTG | TAAAGCTTTT | AGATTGTAAT | GATTTTATTT | 809280 |
| TATGCAAATA | TTTGTGTGTT | AATTTGCAAG | TTAAATATT  | TTGATTAAAT | AAATTTTATT | 809340 |
| GTTATTAGGA | AAGAATAAAA | GGAATAAGTT | TGAATTATGA | AGAAATATGT | TTCTTATGAA | 809400 |
| GAGATAAGAA | TTAATGGATT | TAAGCTTGCT | TATAAAATTT | ATAAAGATGG | ATTTATTCCA | 809460 |
| GATATTATGT | ATGTCTCTCT | GAGAGGAGGG | GCCTATCTTG | GCAATATTAT | TAGCGAATTT | 809520 |
| TTTAAATTTG | TAAAAGTAGA | TAAACCTCTT | TTATATGCTG | CTGTTGTTGC | TAGATCTTAT | 809580 |
| GATATTTTTA | ATGAGCAAAA | AAAGATAATG | ATAGATGGCT | GGACTTATGA | TCCAAAATAT | 809640 |
| TTAAGGGCAG | GCGATAAAGT | TTTATTTGTT | GATGACATTT | TTGATACAGG | TCGTACTATT | 809700 |
| GTTTATTTGA | GAAATGAAGT | TTTAAAAAAA | GGCATAGAGA | GTGAAAATGT | TAAAATAGCA | 809760 |
| GTTTACGATT | ATAAGGATCA | TGGATTGTA  | GATTATATTC | CTGATTATTA | TGTTAATAAA | 809820 |

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|-------------|------------|-------------|------------|-------------|------------|--------|
| TATTCTAACC  | AAGAAGAATT | AAATACTTGG  | ATTCATTATG | GAAATCATGA  | GCTGACAGGA | 809880 |
| TTAAATGAAA  | GTGAATATAA | GAATAGTTTC  | AAATACATAG | ATGATGAGCT  | TAATGAGATT | 809940 |
| TTAAAATTTT  | TGGCAAAAAA | TAAATCTTAA  | TTATTGTCCT | CTATGTATTC  | TATTAAAGTG | 810000 |
| TATCCCTTTG  | TTTTTAGCAT | TTTAATTATT  | ATTCCTAGAT | TATCTTTTAA  | TATTGGGCCG | 810060 |
| ATTAGCATGT  | GAGTTTTTTC | GGTTTTAGCT  | GGAAATTTAT | TAGCATTTTT  | AATTTCTTGA | 810120 |
| AAGTTATCGT  | CTTTATAGTT | GGGATAAACT  | TTAACATAAC | TAGTTTTTGT  | AAAATTTACA | 810180 |
| TCATTTgCAG  | TTTTTTGATT | GATATTATTG  | CCTAAATTTT | TGTTGGGGTA  | ATTAATTTTT | 810240 |
| TTTGATTTTT  | GTATGTATAT | ATTGGAATTT  | ATATTTTTTT | CGCTGTTTGT  | ATCTCTTTTT | 810300 |
| AAAATTGATT  | CTTTTTTGAT | CTTTTTGCTG  | TTTGAATTTG | AGTCGTAATT  | TTTAGAATTT | 810360 |
| TTTTTGATTT  | TTGTTTCTAC | GTTTGAAAAT  | AATTCOAATT | TATTGTCTGA  | TTTTTCATCT | 810420 |
| TTTACTGAAA  | ACAATCTTGT | TGTA AAAAGA | AAGAGTAGTA | TTAATTTGTA  | AAGTTTTGGT | 810480 |
| AATTTTCATCT | TTTTGTTTCC | TTTCTTTTGA  | TTAAAAATAA | AGATTTTTTAG | GAGTCCTTGG | 810540 |
| GAATGGTATT  | GAATCTCTTA | TATTAGATAT  | TCCTGTTGAG | TATTGCACCA  | ATCTTTCAAG | 810600 |
| TCCAAGTCCA  | AAGCCAGAAT | GAGGAGCCGA  | GCCAAATCTT | CTTAGATCAA  | GATACCAGTT | 810660 |
| TAGATGTTCA  | ATGTTTAAGT | TTAATTCCTT  | TATTCTATTT | TCTAATTTTT  | GAAGGTCATC | 810720 |
| TTCTCTTTTCG | CTTCCCCCTA | TAATCTCTCC  | AATTTTTTGA | ACAAGTATGT  | CCATTCCTTT | 810780 |
| AACAGTTTTTA | TTGTCTTTAT | TTGCTTTCAT  | GTAAAATGCT | TTGAAAATTT  | TTGGATAATC | 810840 |
| AATGACCACT  | ACCGGTTTTT | TAAAAGTCTC  | TTCTGTTAGG | TATCTTTCGT  | GATCTGTTTG | 810900 |
| CAAATCTATT  | CCCCAGTAAG | GTTTTATTTT  | AAAATTTTTT | TTGAGTTTTT  | CAAGAATTTT | 810960 |
| AATTGCTTTA  | GTATAGGTAA | TAACCTCAAA  | ATTTGAATTT | ATTACATTTT  | CTAGTTTTTT | 811020 |
| AATTAAACCT  | TTTTCAATGT | AATTTTCTAA  | AAAATCCATA | TCTTGTGAGC  | ATTCGTTTAA | 811080 |
| AATTGAACTT  | AAAAGATATT | TCAAGAGATC  | TTCTGCTAGG | GCAATATTGT  | CGTTAAGCTT | 811140 |
| ATAAAAAGCC  | ATTTCTGGTT | CTATCATCCA  | AAATTCTGAA | GCGTGGCGTG  | TGGTGTTAGA | 811200 |
| ATTTTCTGCT  | CTAAATGTTG | GTCCGAATGT  | ATATATTTTA | GATAAAGCCA  | TTGCATATGC | 811260 |
| TTCCCCATGC  | AATTGACCAG | TGACAGAGAG  | AAAAGCTTCT | TTTCCAAAAA  | AATCGTCTTT | 811320 |
| AAAATCAATA  | TTGCTAAGTG | CATTGTTTAG  | TTTATTAAAT | TTTAGTGTGG  | AAACCCTAAA | 811380 |
| CATTTCTCCA  | GCACCTTCCC | CATCATTTGA  | TGTAATTATT | GGTGTATTAA  | TATAAAAAAA | 811440 |
| ACCATTTTTT  | TGGAAATATT | CATGAATTTT  | GTATGAAATT | TTGTTTCTTA  | CCCTAGCAAT | 811500 |
| AGCTCCAAAT  | GTGTTGGTTC | GTATTCTTAA  | ATGGGGTATT | TCTCTTAAAA  | ATTCAAAAGA | 811560 |
| ATGTCTTTTC  | TTTTGCAATG | GGTAAGTTTC  | TGGGTCTGTT | TCCCCGATTA  | CATTAAAACT | 811620 |



|            |            |             |            |            |            |        |
|------------|------------|-------------|------------|------------|------------|--------|
| ATGTGTTTTT | ATTCATAAT  | TTTGCCCTTT  | TGCAGGACTT | TCTACTAATA | GGCCCGTTAA | 811680 |
| CGATATACTT | GTTCTGTG   | TTAATTTTTT  | TAGATCTTTT | TCACTAAATT | GATTTTCTTC | 811740 |
| TTCGTTTATT | ACAGCTTGAA | TTCTTTAAG   | CGTTGAACCA | TCATTAATTT | CTATAAATCC | 811800 |
| AATTTTGCCA | TTACTTCTTT | TGGTTCTAAT  | CCAGCCGTTT | ATTGTAACAT | TGCTGTTTAA | 811860 |
| AATTGGGTTT | TTTAAATAT  | CTTTAATGCT  | TGCAAACATT | TTATTTATCA | TCCTAAATAC | 811920 |
| TTAACTTATT | AATATTGTTA | AATCAATTTT  | ATTATAGCTT | AAAACTTTTT | TTAAAAAAA  | 811980 |
| CATTTAACAA | TTTTTATTAT | TTTAATTCTT  | GATATTAACT | TTGTTAATAT | TTATACTTTA | 812040 |
| CTTTTATAGG | GTGATTATTA | TTTTTGTAATG | AAAAATTTCA | AAGAAGTAAT | AATTATTTTT | 812100 |
| GATTCAGGAA | TAGGAGGGCT | TTCTTATTTT  | AAATATATTA | AAAGTAGAAT | AGGGGGATGC | 812160 |
| CAATATGTTT | ATGTTGCCGA | TAATAAAAAT  | TTCCCTTATG | GAGAAAAAAG | TCCTGAATAT | 812220 |
| CTTCTAGAAG | CAGTTTTGTT | TTTGATTGAG  | AAGCTTAAAA | AAATCTATAA | TATTGGTGCA | 812280 |
| TTAGTTTTGG | CTTGTAATAC | AATTTCTGTT  | AGTGTATACA | ATAAATTAAA | TTTTGTTTTT | 812340 |
| CCAGTAGTCT | ATACTTTGCC | AGATGTAAGT  | TCAGTTTCAG | ATCTTGTTTT | AAAAAGAGTT | 812400 |
| CTTTTGATTG | CAACAAATAC | TACTCTTGAA  | AGCAAATTTG | TTAAGGATCA | AGTAAATATA | 812460 |
| CATAATGATT | TGATTGTAAA | AGCTGCTGGA  | GAGCTTGTTA | ATTTTGTTGA | ATATGGAGAG | 812520 |
| AATTACAAAA | AATATGCTCT | TAGATGTTTA  | GAAGCTTTAA | AATTTGAAGT | TGTAAATACT | 812580 |
| GGTAGAGAAA | TTGTTTTTCT | TGGATGCACG  | CATTATTTGC | ATCTTAAGGT | AATGATAGAA | 812640 |
| GATTTTTTAA | AAATTCCTGT | TTATGAGAAT  | CGTGAATTAG | TGGTAAAAAA | TCTTATTAGA | 812700 |
| TCAATGAATT | TTTCTGAACA | CAAAGGTAAT  | TATTATAAGA | ATGATTTTGA | TTTTGTAGAT | 812760 |
| GATGAGTTTT | ATTTGACCGA | AAATAAAAAT  | TTGACTTTTT | ATCAAAATTT | TTGCAAAAAA | 812820 |
| TATAATCTTC | GCTTTAAGGG | AATGATAGTT  | TGAATTATCT | TGAATTTGAA | GTTATTTGGG | 812880 |
| GAGTTAATAA | TATATATTCT | ATTTTAGAGC  | TTAACAGTAA | GTTAATTTAT | GAAGGAATTT | 812940 |
| TTAAGGGTAA | GGTATTAGAA | ACAGGTTGCA  | AGGAGTACAG | TCCTTTAGTT | CCGGGGGATA | 813000 |
| TAGTCTTAGG | ATATATTTAT | AGTTCTCGCA  | AAGTGATAT  | TGATAAGCGA | TTAAGCAGGA | 813060 |
| AAAATATTCT | TTGGCGTTAC | AATAAGAAAAG | CAGATCTTAG | ACAGACAATT | GTTTCTAATA | 813120 |
| TTGATAATGT | TTTGATTGTA | AGTTCTGCTA  | ATTTTCCTGA | GATGAAAAAT | TTCTTTATTG | 813180 |
| ACAGAGTTCT | TATTGTTGCA | GAAGAACAAA  | ATATTGTTCC | TATTATTGTG | ATTAATAAAA | 813240 |
| TTGACAAAGG | AATAAGCCAA | AAGGCACAAG  | AATTTTCTGA | AATTTATGAA | AATCTAGGAT | 813300 |
| ACAAGGTTTT | AAAACTTCT  | GTTAAAACTT  | ATGAGGGCAT | TAAAGAAGTA | AAAGAGGTTT | 813360 |

|            |            |            |            |             |            |        |
|------------|------------|------------|------------|-------------|------------|--------|
| TGAAAAATTC | AAGAACTTCT | TTTATTGGCC | AGTCTGGCGT | TGGTAAATCT  | TCTTTGATAA | 813420 |
| ATTTGATTGA | TTCAAGAGCT | TCTCAATCGG | TAAATGAAAT | TTCACATAAG  | TATTCTAGGG | 813480 |
| GAAAACATAC | TACCGTTTAT | TCAATATCAT | TTCATTCTGA | TAGCGGAATA  | ATAGTTGATA | 813540 |
| CTCCAGGAAT | AAAGGAGTTT | GGAATTGAAA | CATTACCCCT | TGAGAATCTT  | AAGTATTATT | 813600 |
| TTAAAGAGTT | TGAAAATTTT | GCTAGTTTTT | GTAAATATAA | ATCCTGTTTG  | CATGTTAGCG | 813660 |
| AACCTTATTG | TTCTGTTACA | AGTTCTTTGG | ATAATGGAAT | TTCTAAACTT  | AGATACGAAA | 813720 |
| GCTATTTAAA | GATTTTGTCA | GAGCTTAAAA | ATTATAAAAA | TTATGCAAGA  | TGAACAAGAT | 813780 |
| AAATATTTAA | AAAATATTGA | CTTTTATGAA | ATTTTATCTT | TAGTATCTAA  | ATACGTTTCT | 813840 |
| AATCCGGATA | CTGTTAATTT | ACTAAGTAAT | CAAAAAATAT | TAAAAACAAA  | AGAAAGTTTA | 813900 |
| GAGAAAATAT | TCTCCTTTGT | AAGTCTGATT | AGAATGCTTT | TTGAAAGTTG  | CAAAGGATAT | 813960 |
| CCAAATTCCT | TTATAAATAG | TTTAAAATAT | CCCATTTCAT | TATTATTAAA  | AGAAAATTCA | 814020 |
| AGAGTTTCTA | TTGAAAATTT | GAGAGATATT | ATAGTGTTTT | TAGATGAGGT  | TTTAAGAATA | 814080 |
| AATTTATTTT | TGCATAAAAA | TAGTGATATC | AAGCATCTTA | ATGTTTCAGAT | TTTATCTGAT | 814140 |
| TTATTATTTT | TAAACCCAGA | GCTAAAAAAT | TTGCTTAATG | AATTGAAAGA  | ACATATAGAT | 814200 |
| GTTGATGCTC | TTGAATTGAA | AAGTGGTGTT | GTAAAAGAAT | ATGATTTCGAT | TGAATTTGAA | 814260 |
| ATTAAAAATT | TAAATAGACG | AGTTGAAAAT | CAGATAAAAA | AAATAATTAG  | TTTGAACGCA | 814320 |
| GAATATTTGA | CTTCTAATTT | TGTTTGTTAT | AAATCGAATA | AATATACCCT  | TGCTCTTAAG | 814380 |
| TCTAATTTTA | AAGGCAAAAT | TAAGGGTAAT | ATTATTTCTA | TTTCGTCATC  | AGGTGAAACA | 814440 |
| TTTTATATTG | AGCCAAACGA | TATTGTAAAT | GCTAACAACA | GGTTAAATTA  | TTTGAGCTTA | 814500 |
| GAAAAAGAAA | GAATAATTTT | AAAAATTTTA | CGAAATCTTT | CTGCTAAAGT  | TCATAGCAAC | 814560 |
| ATTGTTCTTT | TAGATAACCT | TTATAATAAT | TTTTTGTTAT | ATGATTCTTT  | AAAAGCTCGA | 814620 |
| GCGATTTATG | GAATCAAAAC | TAAAGGGGTA | TTTCCCAGAG | TTTCAAATGT  | ATTAAATATT | 814680 |
| TTTGATGCAC | ACCATCCTTT | GTTAAAGGAT | TCAAAGGCAA | TAACTTTTAC  | TCCTGCTGAG | 814740 |
| AATCGTGTTG | TAATTATTAC | TGGTCCTAAT | GCTGGTGGAA | AAACGGTAAC  | TTTAAAGACA | 814800 |
| ATTGGACTAC | TTAGTGCAAT | GTTTCAATTT | GGGATCCCTA | TTGTTGTTGG  | TGAGTCTAGC | 814860 |
| ACTTTTAAAA | TTTTTGATAA | CATTTTATT  | GACATTGGTG | ATGAGCAGTC  | AATTTCTAAT | 814920 |
| TCTCTTTCAA | CTTTTCAAG  | CCATATGAGC | AATATTTCTT | ATATTTTAAA  | ACATACTACA | 814980 |
| AAAGATAGCC | TTGTAATATT | TGATGAATTT | TGCTCAGGAA | CAGACATTGA  | TCAAGGTCAG | 815040 |
| GCGCTTGCTA | TTTCAATTCT | TGAATATTTG | ATCAATATTA | ATTCTTATGT  | TTTAATATCA | 815100 |
| ACTCATTATA | ATGCTCTTAA | ATATTTTGCA | TATACCCATG | AAGGTGTTGT  | TAATGCTTCT | 815160 |

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GCTAATGAAA TTTATTCATC TCAAAAAACA GAAATTAATG AAATTTTAGA AAAATTAATA 815340  
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GAATTGCAAG AAAAAGAGCT AGAAAATTTT TATCAAGATC TTTTATTAAG GGAAAAAAT 815460  
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GAAAATTTGG TTAGAGAAAT AAAAGAGGGC AATATTAATG TTGCAAAGAA TAAAGCTTTT 815580  
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GAGAGGCAGA GGAAATAGTT GCTAGAGCAG AAGAAGCTGC TAGAGTATTA AAGGCAAAAT 816840  
CAGAAAAAGA AGCTAATGAT TATAAATGCC ATGCCCTTGA AGCTTCTCGT CAGGCAATAA 816900

|             |            |            |            |             |             |        |
|-------------|------------|------------|------------|-------------|-------------|--------|
| GAGATTTAAT  | TATTGGCGTT | GAAAAGAATC | TTAAATCTCT | TTTGTAAAAT  | GCTTTAAAAG  | 816960 |
| ATAATGTGAC  | GGAAGTTTTA | AGTGATAATA | ATTTTTTAGC | AGAGCTTATA  | ATTAAAATAA  | 817020 |
| CAGATTCATG  | GGCTAAGGGA | GAAAAATTAG | TTATTCAATT | AAATGAATCT  | GATTTTTTCTA | 817080 |
| GTTTAGAGCA  | GATATTAAGA | CTAAAACCTG | GCAATAAGCT | TAAGGAAGGG  | ATGGAGCTTA  | 817140 |
| GGCCTTTCAG  | GGGCATAAGC | AAAGGTTTTA | AGATTCAAAA | AAAGAATATT  | GGTTTGCATT  | 817200 |
| ATGATTTTTC  | AGCTGAAACT | ATTGCAGACA | TTCTTTTTGA | TTATCTTAAT  | CCAAGATTTA  | 817260 |
| AGGAAGTTAT  | AAAAGTGGTC | TAGGAGACTT | TTGTGTTAGA | TTCATATTAT  | TATGTTTTAT  | 817320 |
| CTTCTTTGCC  | TTATATTGAT | TTAAAATCTT | TGAAAAATTA | TAGTGTTTCA  | GATTTTTTTAA | 817380 |
| ATAATGTCGA  | AATTTCTTTA | AGTAAAAAGG | ACTTCAATTT | TTTAAAAGAG  | TTGCTAGAAT  | 817440 |
| TTAAGATAGA  | TAGGGGCAAG | TCAAGAGTTA | TTGACCTTTT | TCTTAATTTT  | GAAGATACAA  | 817500 |
| TAAGATATAC  | ACTTGACAGT | TTAAGGGCAG | AAAAATTGGG | ATTGTCTAAG  | GATTTTTTATT | 817560 |
| TAGAGTCTAC  | TTATTTTTCA | AGTTACTATC | TTAGTATTTT | GAAAAACATC  | TGCTTGAAAG  | 817620 |
| AAAATCCTTT  | TGAAATAGAA | TTAAGTTTTG | ACCTTCTTAA | GTGGCAATTT  | TTAACTGATC  | 817680 |
| TTGAGGTTGG  | GCATGAATTT | GATTTTGAGA | AATTAATAAT | TTACTTTTTTA | AAGTTAAGGT  | 817740 |
| TATTTTTTAAG | GCATAATTTG | TTTAAAGAAA | AATTGGGTAT | TCAAAATTTT  | GACAATATTT  | 817800 |
| GTAAAAATTT  | AATTGATAAA | ACTAATGAAA | AAGTTTAGAA | AAGGAATTTA  | AATGAATACA  | 817860 |
| AAAGGAAAAG  | TCGTTGGAGT | TAATGGAAAC | TTAGTTACTA | TTGAGGTAGA  | AGGTTCAAGT  | 817920 |
| TCTATGAATG  | AAGTTTTATT | TGTAAAGACT | GCTGGTAGGA | ATTTAAAAGC  | AGAAGTAATT  | 817980 |
| CGTATTAGGG  | GCAATGAAGT | TGATGCACAG | GTTTTTGAAT | TGACAAAAGG  | GATATCTGTT  | 818040 |
| GGAGACCTAG  | TTGAATTTAC | AGACAAACTT | TTAACAGTTG | AACTCGGACC  | AGGGCTTTTA  | 818100 |
| ACTCAAGTAT  | ATGATGGGCT | TCAAAATCCT | TTGCCTGAAT | TGGCTATTCA  | ATGTGGATTT  | 818160 |
| TTTTTAGAAA  | GGGGAGTATA | TTTAAGCCCC | TTGAATAAAG | ATAAAAAGTG  | GAATTTTAAA  | 818220 |
| AAAACCTCCA  | AAGTTGGAGA | TATCGTTATT | GCAGGAGATT | TTTTAGGTTT  | TGTAATTGAG  | 818280 |
| GGAAGTGTTC  | ACCATCAAAT | AATGATTCCA | TTTTATAAAA | GGGATTCTTA  | TAAAATTGTG  | 818340 |
| GAGATTGTAA  | GTGATGGCGA | CTATTCGATT | GATGAGCAAA | TTGCTGTAAT  | TGAAGATGAT  | 818400 |
| TCTGGTATGA  | GGCATAATAT | TACAATGTCT | TTTCATTGGC | CTGTTAAAGT  | TCCTATTACT  | 818460 |
| AATTATAAGG  | AACGCCTTAT | TCCTAGTGAA | CCTATGTTGA | CTCAAACCTAG | AATTATAGAT  | 818520 |
| ACATTTTTCC  | CAGTTGCCAA | AGGTGGAAC  | TTTTGCATTC | CGGGTCCTTT  | TGGAGCAGGA  | 818580 |
| AAAACGGTTC  | TTCAGCAGGT | TACAAGTCGA | AATGCTGATG | TTGATGTAGT  | GATTATTGCA  | 818640 |
| GCTTGTGGTG  | AGCGAGCAGG | AGAAGTGCTA | GAAACTCTTA | AAGAATTTCC  | CGAATTAATG  | 818700 |

|            |            |            |            |            |            |        |
|------------|------------|------------|------------|------------|------------|--------|
| GATCCAAAAA | CCGGCAAATC | TTTAATGGAC | AGGACTTGTA | TTATTTGTAA | TACATCTTCA | 818760 |
| ATGCCAGTTG | CAGCTAGAGA | AGCTTCTGTT | TATACTGCTA | TTACTATTGG | TGAGTATTAC | 818820 |
| AGGCAAATGG | GCCTTGATAT | TCTTCTTTTG | GCAGATTCAA | CTTCAAGATG | GGCTCAAGCA | 818880 |
| ATGAGAGAAA | TGTCTGGACG | CCTTGAGGAA | ATTCTGCGG  | AGGAGGCTTT | TCCGGCATAT | 818940 |
| CTTGAGTCTG | TTATTGCTTC | CTTTTATGAA | AGGGCAGGTA | TTGTAGTTCT | TAATAATGGG | 819000 |
| GATATTGGAT | CTGTAACAGT | TGGTGGCTCT | GTAAGTCCTG | CTGGTGGTAA | TTTTGAAGAG | 819060 |
| CCAGTTACTC | AAGCAACTTT | AAAAGTTGTA | GGAGCATTTT | ACGGGCTTAC | AAGAGAAAGG | 819120 |
| TCTGATGCTA | GGAAATTTCC | AGCTATTAGT | CCTCTTGAAT | CTTGGAGTAA | ATATAAAGGC | 819180 |
| GTTATTGATC | AAAAAAAGAC | TGAATATGCA | AGATCTTTTT | TGGTGAAAGG | TAATGAAATT | 819240 |
| AATCAAATGA | TGAAAGTTGT | TGGAGAAGAA | GGCATAAGTA | ACGATGATTT | TTAATTTTAT | 819300 |
| TTAAATCCG  | AGCTACTTGA | TTCGTGCTAT | TTGCAGCAAA | ATTCATTTGA | TTCTATTGAT | 819360 |
| GCTGCTGTTA | GTCAGAGCG  | TCAAAATTAT | ATGTTTGATA | TAGTTTATAA | CATTCTTAAA | 819420 |
| ACTAACTTTG | AGTTTTCTGA | TAAACTTCAA | GCAAGAGATT | TTATAAATGA | GTTAAGGCAA | 819480 |
| AATCTTTTAG | ACATGAATCT | TTCTTCTTTT | AAGGATCATA | AGTTTAATAA | ATTGGAGCAT | 819540 |
| GCTTTGGGTG | AATTGATAAA | TTTAAAAAAG | GTAATTTAGG | GGGTTTGGAG | AAATATATAT | 819600 |
| ATGAAAAGAG | TCTATAGTAA | AATAGAGTCT | ATAGCAGGCA | ATGTAATAAC | TGTTACAGCT | 819660 |
| CAAGGTATTA | AGTATGGTGA | GCTTGCTATT | GTAAAAGCAA | AAGATACAAG | TTCTCTAGCC | 819720 |
| GAAGTAATTA | AACTTGATCG | AGAAAAAGTT | TCTCTTCAGG | TTTATGGTGG | TACAAGAGGT | 819780 |
| GTTTCCACGT | CAGACGAGAT | AAAGTTTTTA | GGGCATTCAA | TGCAGGTTTC | ATTTTCTGAC | 819840 |
| AATTTGTTGG | GCAGAATTTT | TGATGGTTCT | GGGAATCCTA | GAGATGGGGG | CCCTTCTCTT | 819900 |
| GATGATAATT | TGATTGAAAT | TGGTGGGCCT | TCTGCAAATC | CTACAAAACG | CATTGTTTCT | 819960 |
| AGAAATATGA | TAAGGACAGG | GCTTCCAATG | ATAGATGTTT | TTAATACTCT | TGTTGAATCT | 820020 |
| CAAAAATTGC | CAATTTTTTC | TGTTTCTGGT | GAGCCTTATA | ATGAGCTTCT | TATAAGAATT | 820080 |
| GCACTTCAAG | CAGAAGTTGA | TTTAATAAAT | CTTGGCGGAA | TGGGACTTAA | GCATGATGAT | 820140 |
| TATTTAACTT | TTAAAGATTC | TTTAGAAAAG | GGAGGTGCTT | TAAGTAGAGC | AATTTTTTTT | 820200 |
| GTTCATACTG | CTAATGATTC | TGTTGTTGAA | TCTTTAACTG | TTCCTGATAT | TTCACTTTCT | 820260 |
| GTTGCTGAAA | AGTTTGCTCT | AAAGGGCAAA | AAAGTTTGG  | TGCTTCTCAC | AGACATGACA | 820320 |
| AATTTTGCTG | ATGCAATGAA | AGAAATATCT | ATTACAATGG | AACAAGTGCC | TTCTAATAGA | 820380 |
| GGTTATCCCG | GGGATTTGTA | TTCTCAGCTT | GCATATCGTT | ATGAGAAGGC | TATTGACTTT | 820440 |

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| ATTATTAATT GCTCTTGTG GGAATCTAAT ATCAATTCTA TCAAGCATTG CGGCTCCAAG  | 828180 |
| TTTTTTCCAA TAATTTGAAA TTTCTTGTTG TGAGCAAAAA CAATCTGTAT TTTTTTTTCC | 828240 |
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TTAAATTTTC GTTTTCAAAA GAAATCAATA CCAAATTATT ATCAATATCT TTTAATCCGG 833700  
TTTCAATTAT TCCTGAGATA TTAAATTTTT TTATTCTGGG CATTATTTTA TCATTTTTTG 833760  
TATTTGGAAT CAAAATATCA ATTTTTCAT TAAGATTTAA ATTAAGTTTA TTTTGTATT 833820  
GATTTGAAAT GAGTATAGAA TCCTTTTTTA AGTTTTTAGT ACCTTTTATT AATTTTATTG 833880  
ATTTGTTTTT TAATATGAAT TTATTTTCTA TTGCTCTTAT TAATACACCT TGTTTTTTAT 833940  
TGTTTCCAAT AATTCATAA GTTCTTTTCT CGAAAAATA ATTTAGATCC TTATAATTAT 834000  
GTTTTTTTTT CAATAAGCTT AATCTGTCTT TTAAATAATG GGTTCTATTT GTTTCGTTGT 834060  
ATTCTATTTG CATTGAAAAT CCTTCACTTT CAATATATTT ATTAATAGTA GAAGTCATGA 834120  
TGTTGCTAGA CATGTAGTAA ACAATAATTA ATGGGATCAT TACTAACTT AATGATATTC 834180  
CAGAACCTAT TAAAGCTATT TTATTTGTTG AATTTTTGAA AATTAAATAT GCAATTTTTG 834240  
TAATTTCTGG TAGCCTTAGT ATCATAATTT TTTCAATGTC CTATCTTTGA ATTCGTATTT 834300  
TGAATCTGCT TTGTTTGCAA ATTGTGGGTT GTGACTAACT AGTATTAAGG TTTTTTTAAA 834360  
ATTTTTTGCT GTATTGATAA GTAGATTTT TACAGTTTGT GCTGTGCTTA AGTCTAAATT 834420  
TCCCGTGGGT TCATCACACA ATATTATATT AGGTTCATTG ATTAATGCTC TAGCAATAGC 834480  
AACCCTTTGT GATTCGCCTC CTGAGAGCTC TGAAGGGTAA TGATTTGCTC TGTTTTCTAT 834540  
TTTTAATATT TTCATTAGAT CTAAAGCTTT TTTATTTATT GTTTCTTTTG TTTTTTGGCC 834600

|            |             |            |             |             |            |        |
|------------|-------------|------------|-------------|-------------|------------|--------|
| TGAGATAATT | TGGGGTAAAA  | TTATATTTTC | AATTACACTA  | AATTCATTTA  | TTAAATTATA | 834660 |
| ATTTTGAAAT | ACTAAGCCTA  | TTTGTCTGTT | TTTGTACAAA  | CTTAATGTTT  | TTTCATTTGC | 834720 |
| GTTTTTCAAA | AATATTCCAC  | ACGATATTAT | CTCTCCAGAA  | TCTATTTTAT  | CAATTCCTGA | 834780 |
| AATCATGTTA | AAAAGAGTTG  | ATTTTCCACA | ACCACTTTTT  | CCTTGAATTG  | AAATAAATTC | 834840 |
| ACCTTTTTCT | ACAGTTAAGT  | TTAGATTTTC | TATTACTTGA  | ATTTTTGTTT  | TATTTTTTTT | 834900 |
| ATATGCTTTG | CAAAGATTTT  | TTATAATTAA | TATATTCTCC  | ATTTTACTGT  | CCATTAATAG | 834960 |
| TTTCAATGTT | TTTTTGACTT  | CCAATTTTTT | TTGTTGCCTT  | CATACTTGAA  | TACATTGTAG | 835020 |
| AAAAGCATGC | AAAGCAGAAA  | GTAAATGTTA | AATCGCTTAA  | AAATAATTTA  | GGAGTAATTG | 835080 |
| TATTTTTTAC | TATTTGTATT  | TTAATGCCAT | CTATTTTTTAA | AGCCAATATT  | TGATTTAAAA | 835140 |
| AATTTATTAA | AGTGTTTACC  | AGATTGTCAA | TTATTTTTTAA | AATTTCATTT  | ATATTTAGGG | 835200 |
| AAATGGAAAT | TCCCAGTGTC  | AAGCCAAGAA | GTCTCCTAC   | AGTGCAAATT  | ATTATTGAAT | 835260 |
| GAATAAAAAA | AATTTGCTTT  | ATTTTTTTTT | TTCTAAGTCC  | CATGGCTAAT  | AGTATTAAAA | 835320 |
| TAGCTTTATT | TTTGTTTATT  | ATTATTCTTT | TTTGAAGATA  | ATATGTATTA  | ACGGCAATAA | 835380 |
| CAATGAAAAT | GCTTGCTAAA  | ATAATTAACA | TTGTATTTTC  | TTCTATTTTT  | AATATTTTAT | 835440 |
| AGAATTCTTT | ATTGTATTCA  | TTCCAAGTTT | TTGCTTTAAT  | TTTTGGATTA  | ACAGCTTTAA | 835500 |
| TCTTTTCAAT | TAATTTGTTA  | CTTGGATTTA | AATTTTTTGT  | TTTTACTTGG  | TAATTAATAC | 835560 |
| CAGAATTATG | TAAAATTTTA  | TTTTTAATGA | AATAGTCTAT  | ATTCATAAAA  | ATTAAAGTTT | 835620 |
| CATTTATTTT | TGCATAATTA  | CTTTTGAAAA | TTGATTTTAT  | TTTAAAGCTT  | TTTATATCAT | 835680 |
| TTTCTAGCGA | TATAAGTGTT  | TTTTATTTCA | TCGGTTATTA  | TTAATCTAG   | GGGATCATTT | 835740 |
| TCGAATAAGT | TGAAATTGTG  | AGAGAGTACA | TTTCCAATAA  | TGATTTTCATT | GTCTTTAAGA | 835800 |
| TCCAGCTCAT | CTTTTTC AAG | TCCTGTAAAT | GAAATAAAAT  | TTTGGTCTTT  | TTTGAGATCT | 835860 |
| TTAATATCAA | CTgCAATGAT  | ATTTAAAATA | GTTGGATAAT  | AATAATTTTG  | AATTCCAATG | 835920 |
| CCTTGTTGTT | CGTATATTTT  | ATTTATATGT | TTTATTCCTT  | CAATCTTTTT  | AATTTTTTTG | 835980 |
| ATTTCTTCTT | GAGTTAATTC  | ATTTTCTATT | TTTAAGTTTC  | CGCTTCTAC   | ATTTGTAATG | 836040 |
| CTAAGAAAAA | AATCGTTTTG  | AAAACCATTC | ATGATTGATA  | TTGTTAGGAT  | AATTATTATT | 836100 |
| TCGCCTAAGG | CAATGCTTAA  | TATTATTACA | ATTGTGAGGG  | CTAGACTATT  | TTTTTCTTCT | 836160 |
| AGTATTAATC | TTTTAAGCAA  | AAAATTTCTT | ATACCCATTT  | AATTTGTTCC  | TATTGGTTTT | 836220 |
| TCTTCGGTGA | CTTTTCCGTT  | CTTGTGTTTT | ACCCTAAGAG  | CAGGTTTTTT  | ATTGTAGTAT | 836280 |
| ATTTCTTCTT | CATATTCATT  | GTCATTGTGG | TATTCAGTTT  | TTAGATAAAT  | TATATCGTTC | 836340 |
| TCATAAATTT | TTTTGCTTTT  | TAATTGATTG | TCTTTGTTAT  | ATTCGTATTC  | AATTTTAGTA | 836400 |

|            |            |            |            |            |             |        |
|------------|------------|------------|------------|------------|-------------|--------|
| TTGGTGTATT | GGTCTTTATC | CTTTTCTTTA | GTGTTTTGAA | AAATTATCAT | ATCAGATTCTG | 836460 |
| TTGTATTGAA | AATCATTTAC | TTTTATAAGT | TCATTATTTT | TATATGTTTC | TTCTTTAATT  | 836520 |
| AGGTTGTTTG | CCTTGTAGGT | AGATATGATT | TTTGTATTCT | CTTCTTCAAA | GGTATTTACT  | 836580 |
| ATTTTTTCTT | CATCTAAATA | TTGGTTTTTT | TCTTTGGATT | TTATTTTATT | ATTAACAATT  | 836640 |
| ATTGTAAGT  | TTGAATTTCT | TTTTTTATCA | TCATATTTTA | TAACTTTTGT | TGTTGCTTTT  | 836700 |
| TTGATGTCAA | AATATGTAGA | TTTTATGTCG | CCATTAATTC | CATAGTTCCA | AATTTGGAAA  | 836760 |
| TTTGATCCTG | TTATTTTTAG | TAATTTACCA | TTGTCGTCTT | TAGAATAATA | TATTAATTTT  | 836820 |
| GGTTTTTGGT | TTATTGTTTT | TAAATTTTTA | GATATTAAGT | TTTCGTTTTT | ATAAACGTAA  | 836880 |
| TTTGCTGTTT | CAAGAGTTTT | TCCTTTGCTA | TCATATTCAA | TTCTTTGTAT | TTTGTTATTT  | 836940 |
| AAATTATCGT | AAATCTCTTC | TTTTCTTTTT | GTATCTTTTG | TATCATAACA | TGTAATTTTT  | 837000 |
| TTTGTTGTTT | CTATGATTTG | AATTGTTTTG | TATTTTATTA | AGTTATTTTC | TTTGTATAGG  | 837060 |
| TAGAGTTTTT | CAGTATCATC | AACAGAATAA | TACTCAATAT | AAAACCCCGT | TTTTGGTTTT  | 837120 |
| TCATTTAATT | TTTGGTATTT | ATTGAAAAAT | ACATCAGATG | CAAAATAGCT | TTTTGCATAA  | 837180 |
| ATAATTTGTG | GCATAAATAG | AAGAAGTATT | AATTGTTTTT | TTTTCATAGT | AATTTATTAA  | 837240 |
| AATATTCATT | TATATCAAAT | TCTTTAATAT | CTTCTAGTTT | TTCTCCAAAG | GTAGTAAAGT  | 837300 |
| ATATAGGTTT | TTCAAGAATT | TTTGAAATAT | TTAGTATTGT | ACCTGCCTTT | GAGGATGAAT  | 837360 |
| CAAGTTTTGT | GATTATTATT | CCGTCTATTT | CTATTGCTTT | ATTAAAAATT | TCTGCTTGAC  | 837420 |
| TATTTGCATT | TTTTCCAATA | GTAGAATCTA | TTACAAGTAT | TTTTTGGTAA | TTGATGTCGG  | 837480 |
| TGTTTTTTAT | TTGCTTTAAT | ATTACATTGT | TTATTTTTTG | AAGCTCTTTT | ATTAAATTTT  | 837540 |
| CTTTATTTTG | CAATCTTCCG | GCTGTGTCAA | TAATTAATGC | ATCGTAATTT | TTAAGCTTAG  | 837600 |
| CGCTTGATAT | GCTGTGCAAT | ATCACAGCTG | ATGGATCGCT | TCCTTGTTTT | TGAGATATTA  | 837660 |
| TTCTAACACC | GATTTGTTCT | CCATAAATTT | TCATTTGTTC | AATTGCAGCT | GCTCTGAATG  | 837720 |
| TATCAGCAGC | CGATATTAAT | ATATTTTTGC | CTTCATTTTT | TAATTTATTT | GCAAGTTTTG  | 837780 |
| CTATGCTTGA | TGTTTTTCCA | ATTCCATTTA | TACCAACTAT | TAACAAAATA | TTTAATTTGT  | 837840 |
| TATTTTCTAG | AGTAAATTTT | TTTGTATTAA | TATAGCTGCT | TAAAAGTTCT | TTTAGTTTTT  | 837900 |
| CAATAATAGT | TTTTTCGTTT | TCATTTTTTT | CTTTTGTTAA | TTTATTTATT | ATTTCTATTA  | 837960 |
| CAATTCATT  | ATTAATGTCT | GATTCTAATA | AAATGTCTTC | TAAATTTTCA | ATAACATTTT  | 838020 |
| CTTGTTGTTT | GCTTTTAAAT | AAATTTTTTA | TTTTTTCTAA | AATGCCCAAA | AGTTTGTCTT  | 838080 |
| CCTATTTTAT | TGCAGATTAT | TAAATCTATT | CTCCCATATT | TGCTTCTTTA | ATATATTCTA  | 838140 |

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|-------------|------------|------------|------------|-------------|------------|--------|
| CTAAATGAGT  | TATTAATGAG | ATAAAGCTTC | CAATAGTTAA | AGTGATTCCCT | ACTCCAAATA | 838200 |
| GAAATGTTGC  | AGTCATTTGT | TCCGCTTTTG | CCATATAAAC | ATCTTCTGCT  | GTTAATCTTT | 838260 |
| TGTTAATAAA  | GTGATTGCCT | GTTATTTTAT | AAAGTACTTC | TGAATTGTTA  | AGCAATGTTC | 838320 |
| CTGCAAAAAT  | GGCTCCTATT | GTGCTTAATG | TAAAGACGGC | CAGATTGACA  | TAAAATTTAT | 838380 |
| CTCTTGTGTC  | GATAAGTCTA | TTTTTGTTAG | TTTTTATCAT | TTCTATTTCT  | ACTTGATCTT | 838440 |
| CTTCTTTTATT | TATTAACCTG | AATTTATCTT | TATATCCTTT | AGATTTAAGC  | AAGATGATAT | 838500 |
| CTTGATTTTC  | TGGTTTTTCA | ATTTCAATTG | GGGTTTCTCC | CATAAATATT  | CCTTTTTTAA | 838560 |
| AAACTTTAGA  | TTGTACATTG | CTTTTAATTG | ATACTTTTTT | AGAGATTGTT  | CTTTTAAAGT | 838620 |
| CAATATCTAA  | TATTATTGAG | TCTGCATTTT | TTACCGTTCT | TTAATAGAA   | TAGTTTTCGA | 838680 |
| AATTTGCACT  | TGTGATTTGT | ATTTCAATTT | CTTTGTTTGG | GAGTTTAGAA  | ATGTCAAAAA | 838740 |
| TATTATCGTG  | ATAGATTCCT | TTTGAAACAA | ATTTTTCATT | TATGTAGATT  | TTTGCATCCG | 838800 |
| AGTTATTTTT  | GACGTTAATG | TTGATTTTTA | AAAATTCTCT | GCCCAATATT  | TCTTTGAGGC | 838860 |
| TGTATTTTGT  | TATGTGATCT | GCAATTTTAT | TAACAGAAGA | TGATGTTTTA  | AATACCGCTT | 838920 |
| TTTTAGTCTC  | AATTTTCTCA | GGAGTGATGT | TGCTAATTTT | TAGCAAATAA  | TAATTTTCTA | 838980 |
| TTTTTTTAA   | ATCAATATAG | TTAATAAAAA | ATAATTCTTC | TCTTATAAAA  | AATTCTTTAT | 839040 |
| TTAAATTTGA  | TATATTTGTT | TGCTCTTCGA | TTTTTTTATA | TTTACTTTT   | AGTTTTTTTA | 839100 |
| AATTGTTAAA  | ATATTCTGCA | AATTTTTTTT | GTTTATTGTT | AATATTTTGA  | ATATTTTTTT | 839160 |
| TAAGCTCATC  | AATTTTGGTT | TTGGTGTTAT | GCTTTTCTTT | TGCGGTTATT  | ATGTTTTGAA | 839220 |
| GTTTTTTTTT  | ATCCATTTCT | TTTTTTAATT | TGCTAATTTT | AAGTTCTGTT  | TTTATTATAT | 839280 |
| CTTGATTTAT  | ATAAATGTCT | TCAATGATGC | TCTTGTCATC | ATTGTTTACT  | ATATGTTCTG | 839340 |
| TTATTTTATC  | ATAGATTTTG | TCCAATTGTT | TTTCAATACC | CTTTTTTAGG  | TCAATATTTT | 839400 |
| CTTTTTTTGT  | ATTAATGATA | TAGGAAAAAT | TGTATTCAAT | ATTACTTTGA  | GAATGTATTT | 839460 |
| TGCATATTGT  | AAATACTAGC | AATGGTATTG | CTAGCTTTAG | TTTAAGCTTT  | TCCATTTTAG | 839520 |
| ATACTCTTCT  | ATGAAATTGT | CTATGTTTCC | GTCCATAACC | GAAGTGGTGT  | TTGAATTTTC | 839580 |
| AAATTTTGTT  | CTGTGATCTT | TTACCAAATT | GTAAGGTTGA | AATACGTAAG  | ATCTTATTTG | 839640 |
| GTTGCCCCAA  | GAAATTTCTT | TTTTTGTC   | TTGCTTGGAT | TTGTTTTTTT  | CATCTTCTTT | 839700 |
| GCTCTTATAG  | TATTCATAAA | GTCTTGATTT | TAAAACCTTC | ATTGCCAAGT  | CTTGTTTTTT | 839760 |
| GTGCTGGCTT  | CTGTCGCTTT | GAGACTGAGT | TACTATTCCT | GTTTCAATGT  | GAGTTATTCT | 839820 |
| TACAGCAGAG  | GATGTTTTAT | TGACGTGTTG | TCCTCCGGCT | CCCGATGCTC  | TGTATGTATC | 839880 |
| AATTCATTATG | TCTTCTGGTT | TGATTGTTAT | TTCTATTTTG | TCATCAATAA  | CAGGGTCAAC | 839940 |



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|-------------|------------|------------|-------------|------------|------------|--------|
| AAATACTGAT  | GCAAAAGAGG | TATGCCTTTT | TTTAGCAGCA  | TCAAAAGGAG | AAATTCTTAT | 840000 |
| AAGACGATGT  | ATTCCAACCT | CACTTTTCAA | TAGCCCATAA  | GCATACTCAC | CTTTGATTTC | 840060 |
| TATTGTAACA  | GATTTTATTC | CACCTTCTGC | TTCGAGTAAA  | TCAATAAGTT | CTGTTTTGTA | 840120 |
| TTTTTTTCTC  | TCAGCGTATC | TTGAATACAT | TCTGTAAAGC  | ATTGCGACCC | AGTCACATGC | 840180 |
| TTCAGTGCCC  | CCAGCCCCAG | AATGAATAGT | TAAAAAAGCA  | TTGTTTGCGT | CAAGCTCTTC | 840240 |
| TTTAAAAGTAA | GAAATTGTGA | GTAAATCTTT | GTATTGTTTT  | TCAAGCGTAT | TAAATTCAAT | 840300 |
| TTCCAAGCCG  | TTAGTATCTT | TTTCATTTTC | GGCAATTTTC  | CACAAATCGC | TTAAGTCTTT | 840360 |
| TATTTTATTT  | ATTAGCTCTT | CCCACGGATC | AATTTTATTT  | TTTAAAATAC | TTTGAGCCTT | 840420 |
| AATTACTTTT  | TGAGCTCTTT | TAGGATCATT | CCAAAAATTT  | TTCTGGTTTA | TTTCTTTTTT | 840480 |
| ATATTTTTCG  | ATTTTAGCTT | GAATTTTATT | TTTGTCAAAAG | CTTCCTCCAA | ATGTCTTCGG | 840540 |
| CATGTTTGAG  | CAATGTATTT | ATTTTTTCTT | TCATTTTTAT  | TTCTCGCTAT | TATTGATTGT | 840600 |
| ATATTAATAT  | AATTATATTT | GGAATTAAAG | ATAAAAATAA  | TATTATAAAA | AAATATATTG | 840660 |
| GTTTCGTTTT  | CAATATATTG | ATTTTGGGGT | TTTTATCAAA  | GTTTTTTTTT | ATTGATGTTA | 840720 |
| TTGACATTAA  | AGCTATTAGT | ATGCCAAGTG | CAGATAGAAT  | AAGTATTTCT | AATCCTTCAA | 840780 |
| AAAATCCGTT  | GTTCTTATCA | AGCGCAAAAA | ATGTTATTGC  | AATTAAGCTG | CTATTTGAAA | 840840 |
| GCATGAAATC  | GTTTGAATAA | TTTGATTTTT | TGTTGTAAAC  | AATAAATAAA | TCATTTAATA | 840900 |
| CTTTAAATAA  | TAATATCAAC | ACGTAAATCA | AAATTACATA  | AAAAATTGGC | ACTAAGAACA | 840960 |
| GTAAATTATT  | CTTTGCAAAC | AGTTTATAGA | GATAAAACGA  | TATTGAATAT | ATTAATAAAG | 841020 |
| AAGTAATTGT  | TATTATGGCG | TACCTTTTTA | TTAGCATTAT  | ATTGTTTTTT | ATTTTTATGT | 841080 |
| CCTCAAATCC  | AACAAAGTGT | ATTAAGGTTA | AGTTGTTAAT  | AATTAGGCAT | GCAATTAAAT | 841140 |
| TATTGGTCAT  | AATTTTATTA | TATCCTTTTC | ATTCTCAAGA  | GGTGTTTTGA | GTGCTTTTTT | 841200 |
| TTTATTTGTT  | TTCAAAACAT | GCATTATTTT | TTTAATTTTG  | AAGGTTAAGC | TATATTTTTT | 841260 |
| TATTAAGTTT  | GAGCTTGTTT | GTAAGATGAA | AATAGATATT  | ATGACTGATA | AAGTTTCAAA | 841320 |
| AGGAATGTAG  | CTTAATGTCA | AAAAGTATAT | AAATGCCAAT  | ATTGATCCGT | AGAGTATTTG | 841380 |
| CTCAAATTTA  | AAGTGAGGTG | TTATTTGCAA | TTCTGTTGCC  | ATTGTAAATA | TTAACAGCAT | 841440 |
| TGGGATTGGA  | GAAATAAGTA | GTGTTAACAT | GTCGGAGCTG  | ATGTGGTTTA | GCATTCCTAT | 841500 |
| ATTATGTGCT  | ATGTACGAGA | TTGCCATTAA | GCTTATATAA  | AATGAGAGTG | GTATTAATTT | 841560 |
| GTGATTATA   | TATTTGCCAA | CTATTAATAA | GAGGCCAAAA  | TAAAGCAAGA | TAGGAGATAT | 841620 |
| TTTTTTTTCA  | TTATTAACCT | CCAAAAGACT | TTCAATATGA  | AATCTTGTGA | CAATTATATT | 841680 |

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|--|--------|
| AAAAGCGGAA AAAATGTTTT GATTACAAA GTTTTCAATT GCATCTATTT TTTTACTTTC   | 841740 |
| ATATCTTGTA AAGGTATTTA AACTTTTTTA ATTTTTTATG TTTGGATTG TTTCAATTAT   | 841800 |
| TTCATTCCAG GTTGAATTA TTGAATTTGA ATTTTAAAGT TCCTCTTGAT AGGCTTGCTT   | 841860 |
| AAAACCTACC GGAAAATTTA ATACCACAAA CATAAAAGAA ATTAATATAG GGTTCGCCAA  | 841920 |
| AAATGCTGAT AGTCTGAAAA AGTAAAAGAA TACCACAAAA GTAAATAATA AGGAAATTAT  | 841980 |
| TTTTAGTGTA ATTTCTAAAT CCAAGGGCAA TATAATGCTT ATCATTAAGG CGGCGTAAAC  | 842040 |
| AAAAAAGAC AAACATTTGT AATTAATTTT TAGCATTATA GGTATATAGA TTGCCACACT   | 842100 |
| AATAAATATT AACAGCAAGG TGTCTGTCAT GAATTTTGTG TTATTTAGGA AAGAAAATAT  | 842160 |
| CAGGCTAGGT GATAGTGATA GTATGATAGC AAAGTATATG TCTTTTAAAT TGTTTTCAGT  | 842220 |
| GTATATTGCT TCATTTGTTA GACTTTCATT TAGAATTTTG CTTTAAATTT CTTTTTGAAC  | 842280 |
| CTTATGTATT TCTTCTTCTA CTCTTTTGTC TGTATAATTA AATATTTTTA ATTTGCCGCT  | 842340 |
| ATTATTTATT TTTTCTTTCT TTAAGAATGA AAAAATAATA TTTTCCATTT GCAATGGTGC  | 842400 |
| AAAGCTTGAT ATAAACAATG CTTTAAATTT GTCGTATATT GACTTTTTCT TTAATATGGT  | 842460 |
| GAGACTATAA ATATCTCTTG TTATCGGTAT GTTTAATGTA TCGATTTTTA TTTTATTGGC  | 842520 |
| TGGGTGTTTT AAAAAAATTT CATATTTTTT TGTGTCAATT TTCTCATTTA TTAGCTGGCT  | 842580 |
| GAAAGAGGTT CCAATTTTTA CCTTCAGTAT TCTACTTTTT ATTTTTTTAT TTCCATTTAT  | 842640 |
| AGCTACAAAT TTTTCTTTAT AAGGGTTGTT ATTTTTTATG ACAAGATTG CATTGTATAG   | 842700 |
| ATCTTCAATA TTTGCTAATA AAATATTGTT GTGGGGATTT ATATCATCTT TTGTATTTTT  | 842760 |
| ATTATTGTAT AAAAAGTGCA TTATCATTTT GTGATTTGTA TAAGGATATG CATTTTCTAA  | 842820 |
| AGATTTAATT TTTATTTTTT TGTTTTTTAAA AATACTCAAT TTTTCGAATT CTTTTTTTAG | 842880 |
| TTTGTCTTTA TTTGATATTA TTATPATTAT TTCTTTGAAT TTGAATATTT TGTCGATTAT  | 842940 |
| TTGGAATCCT GAAAAAATTT CTTCTAATTT TTCTGCCATC AGTGCTTCTG AAATATTTGT  | 843000 |
| AAATGCATCT TTTCCGTTTG TTAATAAAAT CATTTTGTCT ATTTTTTTTAC ATTTGTTTAT | 843060 |
| GAATTGAAAT AAAGAATTTT CGTTAAACCA AGGAATCCC AGTTGAATTA ATTTTCCAA    | 843120 |
| GGTTTTTTCT CTTGAGGCTC CTCTTCAAT TGGTGTTTTT TCAGTTTTTA TTTTCCCTTG   | 843180 |
| AAATTTGATT AATGCTGATT TTAAATTTTT TCCATCTGGA AAATTGGCTG TGTATATTTT  | 843240 |
| TTCTACTATT CCAGATATTG GAGAATATGT GTATAGCTCT ATGTTTGAGT TTTTGGATAA  | 843300 |
| AATTTGATTT TCTTCTATTT TTTGTTTTTC AATTATGTAT ATTATGGATT TTGAATTTTC  | 843360 |
| TGTTTCAAGG GGTATTAGGG CATATTCAGG TATTTGAATC TCGTTAATAT TTATTTCTGA  | 843420 |
| TTTATTGTAT TTTTTAAAAA TTGTTTTTAC TTTTCTAAG TCTAGCATTG GCTATTTATC   | 843480 |

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|------------|------------|------------|------------|------------|-------------|--------|
| CTTGAATATA | TTTTTTATAG | GTTTTTTCAT | TTATGTTTAA | AAGAATTGTA | AATCTTATTG  | 843540 |
| CTTTAAATAG | GAATAGTAAT | ACAAAGAAGG | GCAAAGAGAA | AAAGAAAAGT | ATTTTGTAAT  | 843600 |
| TTTTTTTATC | TGTGTTGATA | TTATTCTTGT | TTTCTTTATA | TATTAGGATT | GGATTTTAT   | 843660 |
| TTTTTAAAAA | CAGACTTGCA | AGATCTTTTT | TAAGAATTTT | ATCAATAAAT | GATTTGTCTA  | 843720 |
| CTTCGTAAAC | AGTTTTAGGA | TGAATTTCTA | TTTTGTCGTT | TTTGATTTC  | AAGTAATTTT  | 843780 |
| CTTTTATATC | TTTAGGAATT | TTCCATACT  | TAGCGGTAAT | ATTGTATTTT | AGTTCGTTTT  | 843840 |
| GATAAAGAAT | GTGGGATAGG | TACCCTATAA | TATTGGGCAT | GTCTTTGTTG | TATCCCAGCA  | 843900 |
| TTATATAAAT | GTTATTAGGA | TTTAAATAAT | CAAAGTAATT | TAATTTTTTA | CTGTAAAGGT  | 843960 |
| AGTTAATGTT | TTCATAAGAA | TTTAGCATAT | AGCTTGAATA | AGCGAAAGGA | ATTAATGAGA  | 844020 |
| GTGTAAATAG | TAGTAGATGT | ATTGCTATTT | TTGATTTTAA | AGCTTTTTTT | CCTTCTATTT  | 844080 |
| TTTTCTCTTT | AATCTCGATT | GGGAATAAGA | AAGTGTCTTT | AAAATTGCTT | TCTGTTTTTA  | 844140 |
| TCCAGCTGAA | AATTAAGAAA | ATGCAAAGGG | TTGGTATTGC | GACAAATGCA | ATAAAAGTGG  | 844200 |
| GATCAATATT | TGTAGTAAAA | AAGGTTGTGA | TTGTAATGAA | ATATAGAGCT | GTGAATGTAA  | 844260 |
| ATAAAAATAG | TAAGTGTTTT | ATTTTTGTCA | TTAGTGTTAA | AAAATTTATT | TCTTTTAAAT  | 844320 |
| ATATTTTATT | GTAATTTTTG | TTAAAATTAC | TGATTATTAA | AAATAACAAA | TAAGAGAGAA  | 844380 |
| CTGTAAATGG | ATAAAAATAC | ATTATTTCTT | TGCTTATCAT | AAAAGCAAGA | GATGAAATTA  | 844440 |
| ATAGAAAAAT | TAAAGTAAAT | ATAGAGTTTG | TTGGGTCTAA | AAAAATTAAT | AAAATTATTA  | 844500 |
| TGATTAGAAA | TATTATGCTT | GAAATAAAAT | TAATTTTTGT | TTTGTAGTCA | AGAGAATGTA  | 844560 |
| TGTCGGCATT | AATATTGAGT | TCTTTTTTTA | GGTTTTTAAA | ATTTATACTT | TTAAACCTGT  | 844620 |
| TTTCAACATA | AAGAAGTTTT | TTGTGCTCTA | TGTTGAAAAG | ATTGGAGAGC | TTTTTTAAAA  | 844680 |
| ATATGCTTTT | TCTCAGGTCA | AGATTGTTAA | GTTTGTTTAT | CTCATTTATT | GTGATTTCTT  | 844740 |
| TATTTTCGGG | AAAGTCTAAA | ATGTCAATTT | TTGTTGTGTA | TTCTGAGATT | GTTTTGTATC  | 844800 |
| CTAGTGAATT | TATATATTCA | TTGGCAGTTT | TTAGATCATT | TTCATTTTCA | AAGTATAAAG  | 844860 |
| GTTTGTAGTC | TCCAAATTGA | GCTGCATCAC | AGGATTTGAT | AAGTGGTATT | GTTGTAATTA  | 844920 |
| AATATAAAAA | ACCTAAAAAA | CGCACCATTT | ATTTTTTCCT | ATGCTAAAAA | TAGCACACAA  | 844980 |
| TATACGCAGA | GACTATTCCT | ATTATTATGC | CCGTTAGAAC | CTCTTCTTTT | TTGTGCCCCCT | 845040 |
| TGACCACTTT | TATTTTTTGT | GTGTCAATTT | TTATTTCTTT | TTTAAATTTT | TCTGATAATG  | 845100 |
| CATTTAAATA | TTCTGCTTGA | ACTCCAGACA | TATATCTTAC | GCCGAAAGAA | TCTCTTATTG  | 845160 |
| TAATAAGGGC | AAATGCAAGA | GCTATTATAA | AATTTGTATC | TATTCCTTCA | GTTAGTGCGA  | 845220 |

|            |            |             |            |            |            |        |
|------------|------------|-------------|------------|------------|------------|--------|
| TTGAGGTTGA | AAGAGCGGTG | ACCGTTGATG  | AATGACTACT | TGGCATGCCT | CCTGTTTCTA | 845280 |
| GAAAAATTTT | TTTTAAAAGA | TGTACTGGAG  | TTAGTTTTTA | CTTCTTGTT  | TTTACAGTTT | 845340 |
| GGATACCATA | TTTAATCACT | TGAGCAGAAA  | TTCCTGATAC | AAGACAAGAC | AAAAAAAGAT | 845400 |
| CATTGGTAAG | CAATGCCCTT | ATCATTATTA  | AGCCTCCTTT | TATATTGCGA | ATTACCAGC  | 845460 |
| TTTTATTATT | GTGTACTCTT | TTCCATTTTT  | GTCTACACCA | ATGACATTTA | AGTCATCGCT | 845520 |
| TCCAATCATT | AAATCTGTAT | GTATCAATGA  | AACGTTACAT | CCGTAAGTTA | GCTTATCGGC | 845580 |
| ATCGGTCTTT | AAATCTTCTT | CATTGCTTAA  | ACAAGATGGA | TATGCAGCTC | CTAGTGCTAT | 845640 |
| GTGGCAACTT | GCATTCTCAT | CATATAATGT  | GCTGTAAAAA | ATAAGATTGC | TTTGATAAAT | 845700 |
| AGGGGAGCTA | CTGTCAACTA | ATGCTACTTC  | TCCTATATAT | TTTGCTTGAA | TGTCGGTTTC | 845760 |
| AATGTGTGAT | TTTAATATTT | CTTTTTGCTT  | CTCATCATCA | CAGCCAAAGT | CAACAACTTT | 845820 |
| TCCATTTTCG | AATTTTAACC | ACATTCCATA  | TATTAGTGTC | TCAAGAACCA | TTACAGGGCG | 845880 |
| GGTGGCGTAC | ACGATGCCTT | TTGTTTTTTT  | ATAGTTTGGA | GTTGTAAAAA | CCTCTTCTGT | 845940 |
| TGGCATATTG | GCATTGAATT | CTATTTCTGT  | TCCTTTGATT | TTTTCGCTTC | CACCTGTCCA | 846000 |
| TAGGGAAGTT | TCAAGCAGAT | ATACTTCCAA  | GTTTGTTTTT | TCGGTTTTAA | AAATTACCTT | 846060 |
| TTCTAGGTTA | AGTTCATTTA | ATGTTTGTGA  | TCTTTTGTGA | AGTTTTTCTC | CATGGGATTC | 846120 |
| CCAACCTTCT | ATTGGATTTT | CACTGTGCGAG | TAATAATATT | TTTTTTTGTA | TTTTGAAAAA | 846180 |
| TTCTTCTAAA | GTTTGACTTC | CTTCTTTTTT  | ATTTAAAACT | TTGGAAGCCC | ATTTTGGAAC | 846240 |
| TGGTGCACAA | ACAACGCACC | AGGCTATTTC  | GTTGCTCATT | ATTGCTTGTG | ATAAGGTTTT | 846300 |
| GCTTGCCAAA | TTTAAGGCTT | TTTGATAAAT  | TGACATTTTT | TGACCAATGC | TTTCTTTTAA | 846360 |
| GTCTTCAAAA | TTTTCTGTAT | CATCGACGTT  | TATTCTTGCC | CATTTATCTT | GAACCATTTC | 846420 |
| TTCTAAAAAG | CTTTTTTCTG | CATTTGGAAT  | AAATTTCAAG | CTTCTTCTT  | GTGAAAATTT | 846480 |
| TAGTCTTGAT | TTTAAAATAT | CAATGTCTTT  | AATGTTTAGC | TTGACATACT | TAGCCCCGTG | 846540 |
| TTCATAAGCT | TTTTTTGCTA | ATATTTTCAA  | AAAATTATAA | TTGTCGATTG | AACCTTGAAT | 846600 |
| TAAAACACAT | TGATTTTTTT | GCAAATTAAT  | TCCCTTTAAA | ATTATAAGCT | CTGCATATTT | 846660 |
| TATTAAATCT | TTCTCCATTT | ATTCCCTCCTA | AATAGGTTCT | TCTAAGACAT | TCTCATTAAT | 846720 |
| GTAGTTTGCA | ACAGCTTCTT | CATCATTTGT  | TCCTATTACT | TCTAAGTAAG | GAAGCATTGC | 846780 |
| TTTTAATCTA | TAATTTGCAT | TTCCCATTAG  | TAATCCCTTT | TTAACATTTT | CTAGCATATC | 846840 |
| AGTATCATT  | AAGCCATCTC | CAAAAGCTAT  | GGTTTCGCTT | AAATTAATAT | TTATAGTTTT | 846900 |
| AAGAACTTCT | TTTAATGCAT | TACCTTTGGA  | GACTTTATGA | TCTACAATTT | CTAGTGAATT | 846960 |
| TGGGGTAGAA | AGGTATGCAT | TTATTTCTCC  | TTTATATTTT | TCTAAAATCA | TTGCTTCATA | 847020 |

|             |             |            |            |            |            |        |
|-------------|-------------|------------|------------|------------|------------|--------|
| TTCTATTAGG  | CTTTCTTCTC  | CGCCAGCTAG | TATTATTTTT | GCAACATTTT | CAAAATTTTT | 847080 |
| AAGCTCGTTA  | AAGTCTTTAA  | TTTCTTGAAT | TTTATTGATT | GGGCTGATTA | TTTCATGTCT | 847140 |
| GAAGACATTG  | GATTCTTTTT  | GCAATTTTTT | ACATTGATCA | ATTGCAATTT | TAGTCTTGAT | 847200 |
| GTCAATATTT  | AATTGGTCGT  | CGTTTTGATC | TGCTTTATGT | AAAAAATGAG | GTATGTGACT | 847260 |
| AAATTTCTCG  | TCTCTTAAAT  | TTAAAATCTT | CTTTACCACT | TCAGCAGATA | AATTATGACT | 847320 |
| TTTTATTAAT  | TTCCATTCTT  | GATTGTAAAC | TTTTGCTCCG | TTTAATGTAA | TGAAAAATGA | 847380 |
| AACTTGCACT  | TGATCTGTTT  | TTTTTATAAT | TTGAATGATT | TCATTTTTAC | TTCTTCCTGT | 847440 |
| TGCTATTATG  | AATTTCTTTT  | TTTCTTTTGT | TAATTTTTTA | ATTACAAGTT | CTGTAAAGGC | 847500 |
| TCCAATATAG  | CTTTTTGATA  | GTAAAAGAGT | GCCATCAAGA | TCAGAGGCAA | CCGCTTTAAT | 847560 |
| ATTTTTTCATG | TTTTATCCTT  | TAGGAGTTAA | TTTCAAGCTA | AATTATATCA | AATAATTTTT | 847620 |
| TTTTTTTTAAA | TTGATAATTA  | TTTGGTATAC | TAATATTAGT | AAGGTTGTAT | AAAGGGGATT | 847680 |
| TTTTTTGGATA | TTAATAAAAG  | ATTAGCTTTG | CTTAGAGATC | ATATGAGAGA | TAATGGGGTT | 847740 |
| GATGCTTATT  | TGGTAGCAGG  | CTATGATCCT | CATTTTAGTG | AATATTCTCA | TGAAAGATAT | 847800 |
| AGCACTCGTA  | AGTTTATTAC  | AGGTTTTTCT | GGTAGCTTTG | GTACGGTAAT | TATAACATTA | 847860 |
| TCAAAGCTG   | TTCTTTTTTAC | AGATGGTAGG | TATTTTTTAC | AGGCCGAGCA | AGAGCTTAAG | 847920 |
| GGAAGTAAA   | TTGCATTAAT  | AAAGCTTGGA | GTAAAAGGAT | CTCCTGATAT | TTTTACGTAT | 847980 |
| ATAAATTTGA  | ATCTTAAAGA  | ATCAAAGCTT | GGAATTTATT | CAGATGAGAT | TAGTATAAAG | 848040 |
| TTTTATAAAG  | AGTTGTCTGA  | AAAATGTAAA | AATACACATA | TCAAGGCTTT | AAATCAAGAT | 848100 |
| CTAATTGATT  | TAATTTGGAA  | ATCTAGACCC | CAGCTTGAGT | TTAGCCATGT | ATTTGAATTG | 848160 |
| GCTGATGCTG  | AGAAGAATAA  | CAAAAGAGCT | GAAAAAATCA | AATCTATTTA | TTTGATCTTA | 848220 |
| GAAAAGAATT  | TGGCAGATTT  | TTATGTTATT | ACTGCTCTTG | ATGAGATTGC | TTGGGTGCTG | 848280 |
| AATTTAAGAG  | GGGCAGATGT  | TGAAGAATCA | GCATTATTTT | ATTCGTTTCT | TTTAATATCT | 848340 |
| AGGAATAAAA  | ATCGAAAAAA  | TGTTCTTTTT | GTTGACAYAA | AAAAACTTGA | TTCGGGTGTT | 848400 |
| AAAGAAGCAC  | TTGAAATGGA  | AAATTTTGAA | ATAGAGTCTT | ACAGCAATTT | TTACTGTTTT | 848460 |
| TTGGACAAAA  | TAAAGCACGA  | AGGTAAATTT | TTTGTTTCAT | TTTATGCCAA | TGTTAGGGTT | 848520 |
| TTAAAAGTTC  | TTGGTGAGAC  | TAATATCATT | TTGGGAGAGA | GTATTATAAG | TAGTCTTAAG | 848580 |
| GCATTAAAAA  | CCGATTATGA  | ACTTCTTAAG | ATGAAAGAAG | CGCATATTAT | TGATGCTATT | 848640 |
| GCATTGATTA  | AATTTTTTACG | TAAATTTAAA | AGTCTTAGCA | AGGTTGAATT | GTCTGAATTA | 848700 |
| GATGAAATAG  | ATGTTGCTGA  | TATGCTTTTG | CATTTTAGAA | AATTGAATAA | AGATTTTTTT | 848760 |

|            |             |            |            |            |            |        |
|------------|-------------|------------|------------|------------|------------|--------|
| AGTTCTAGCT | TTGACTCAAT  | AGTTGGTTTT | AGAGAAAATG | GAGCTCTTCC | GCATTATAAG | 848820 |
| CCCCAAAGAG | GTAGAAAAAT  | AAATACCAAT | GGTCTTCTTT | TGATTGATTC | TGGGGGTTCA | 848880 |
| TATTTTGAC  | TTGGTACGAC  | AGACGTTACA | AGAGTTTTTT | TAATAGGTGA | TGCCTCTGAT | 848940 |
| GAAGAAAAGC | GCGACTATAC  | TTTGGTTCTT | AAGGCTTTCA | TTGGCCTTTC | TTCTTTAAAG | 849000 |
| TTTCCATATG | GATCTTCCGG  | AGCTTTTCTT | GATGGAATTT | GTAGATTACC | GCTTTTAAAA | 849060 |
| AATGAATTGA | ATTTTATTCA  | TGGCACTGGG | CATGGTGTTG | GGTTTTTTCT | TAATGTTTAT | 849120 |
| GAAGTTCCAG | TTTCTATTAG  | TCCTAATTCT | AGTTATCTTT | TTAAAGGATC | TGAGGTAGTT | 849180 |
| TCAATTGAGC | CTGGTCTTTA  | TAGAACATTT | AGTCACGGAA | TAAGAATTGA | GAATTTAGTT | 849240 |
| TTTGTAAGGC | AAGCTTTTAC  | AAATGACTTT | GGAGCTTTTT | TAGAGTTTGA | GAATTTAACC | 849300 |
| CTTGTTCCCT | TTGAAAAGGA  | ATTGATAGTA | AAAGAAATGC | TCTCAGAAGA | TGAGTTAAAT | 849360 |
| TATATCAATG | ATTATCATGA  | ATGTGTATTT | TTAACATTAA | AAGAGCGCTT | TGATAATGAA | 849420 |
| GGAGAGTTGG | AATTTTTTAGC | AAAGCTAACA | AGTAAAATAT | GAGATTTATA | ATTGCATTTT | 849480 |
| TAATGATTTT | AAATCAAGGA  | TTTTCAAATT | TGTTTTCTTT | GCCTCCGGAA | GATATTATTT | 849540 |
| TTGAGAGTTC | TTATGAGGTT  | GCAATTAAAA | AAGCTCAAAA | ATTGAATAAA | AATGTTTTAA | 849600 |
| TTTTGGTTGG | TAGAGATATT  | AAAGAAAATT | TAATAAAAGA | TTTTTTAAAC | TCTTTTACAA | 849660 |
| ATGGTGAAAT | TATTCACAAA  | GTATCTAGAA | AAAGTGTTTT | TTAGTTATT  | GATAAGGATA | 849720 |
| ATGAAATTTT | TAATAAAATT  | AATCTACAAA | AAAGTCCGAC | TATTTTTTTT | GTTGATTCTA | 849780 |
| AGAATGAGCA | AATAAAGGCA  | GCTTATGTGG | GAGCTGTTTT | GAGCAGTGTT | CAATTTGATA | 849840 |
| AGGATTTTTT | AACTATGTT   | ATGGGAGCTA | TAAAATCAAC | AAGTGTTTTA | AAAAAGCAAA | 849900 |
| AAGATTATGA | AATTAATACT  | GCTGATGAGA | GAACCTTTTT | TTACAAAACA | TTAAAAGGTG | 849960 |
| ATTGGCGATT | AAAGTTTAAT  | GGTAAAGACA | GAAAGCTTGT | TCTTTTTGAT | ACAGATCTTA | 850020 |
| AAGAATTTTT | AGTTTTTAAA  | GATATTAATG | AAAACAAGCT | TTATGCTATT | CCTAAGTCTA | 850080 |
| GGATTGGTAA | TATTTATTTT  | TCATTATTGG | GAAATGAAGA | ATGGAAGCTT | TTTGGAAAAA | 850140 |
| TAAAATAAGT | GTCTTTTTTG  | TTTGAAAGGG | GGATGGGTTT | TTATGGAAAT | GGTATTTTAT | 850200 |
| CCTAATGATT | TGCTTCGTGT  | TAAGACAAAG | CAAATCGAGA | ATATTGACGA | TAAGATTAGA | 850260 |
| GATTATGCTA | AAAAGATGAT  | AGAATTGATG | GATATTAGCG | GTGGAGTTGG | GCTTGCTGCT | 850320 |
| CCCCAAGTAG | GCCTTGATTT  | GGCGCTTTTT | GTAGTTAGAG | AGAATAAAAT | GGCAAGGCCT | 850380 |
| TTGGTTTTTA | TCAATCCTTC  | AATCATAGAG | ACTTCTTATG | AGTTTAGTTC | TTACAAAGAG | 850440 |
| GGGTGTTTGA | GTATACCAGG  | AGTTTATTAT | GATTTAATGA | GGCCTAAAGC | TGTTGTAATA | 850500 |
| AATTTTCATG | ATGAGAATGG  | AAAATCTTTT | ACTATAGAAA | ATTCTGATTT | TTTGGCAAGA | 850560 |

|            |            |            |             |            |            |        |
|------------|------------|------------|-------------|------------|------------|--------|
| ATTATTCAGC | ACGAAATGGA | CCATTTAAAT | GGAGTTCTTT  | TTATTGATTA | TTACGAAGAA | 850620 |
| AAGTTAAAAA | ATAAATTACT | AAAGCCTTAT | ATGAGAGAAA  | GGGGGCTTAA | GGCAAAATGA | 850680 |
| AAATATTTTT | TGTAAGCTCT | TCTTCTATTG | CTTTAGAAGT  | TTTCAAAGAG | ATTGTAAAGC | 850740 |
| ATTATGAAGT | GGTGGGAGTT | TTGACTTTGC | CTGATAGACC  | CAAGGGTAGA | GGACAAAAGT | 850800 |
| TAAGTCAAAA | TGTAATAAAG | TCAGAGGCTA | TTGCTAGGAA  | TATTAAAGTT | CTTGATCCTT | 850860 |
| TGATTCTTGA | TGATAATGTA | TTAAATTTAG | TTAGAGATTT  | GAATCCAGAT | TTAATGTTAG | 850920 |
| TTTTTTCTTA | TGGCAAGATT | TTTAAAAAAG | AATTTTTTAGA | TCTTTTCCCA | AAGGGATGTA | 850980 |
| TTAATGTTCA | TCCTTCTCTT | TTACCCAAAT | ATAGAGGCGT  | TTCTCCGATT | CAATCTGCAA | 851040 |
| TTTTAAATGG | TGATTGTGTT | AGCGGTGTTA | CTATTCAGAG  | TATGGCTTTA | GAAATGGATA | 851100 |
| GTGGCAATAT | TTTAGTGCAA | AAAAATTTTA | AAATAAGATC  | TTATGATACA | AGTCATGATA | 851160 |
| TTTCAAAACT | TGTATCAAGC | CTTAGTCCAA | GCCTTGTTCT  | AGAAGCTTTG | GAAAAAATTA | 851220 |
| GCAAGGGTTT | TTTGGAATT  | CCTCAAAAT  | CAAGCGAAGC  | TACTTTTTGT | TCTTTTTTAA | 851280 |
| AAAAAGAATC | TGGATTTATA | GATTTTAATT | TAAGTGCATT  | TGAGATTAAA | AATAAAATTA | 851340 |
| ATGCGTGCAA | TCCTTGCCCA | CTTGTAAGAG | TTAGGCTTGA  | TTATAACGAC | ATTATTTTTC | 851400 |
| ATCGCGCCGA | TTTTTTGGAG | GTAGATTTAT | ATAAGGAGAG  | AAAAATAGGA | GAAATTGTTG | 851460 |
| ATTTTAATCC | TGAAAAAGGA | TTATTTGTTA | ATACCGGGAA  | AGGGATTCTT | TTGCTTTTAG | 851520 |
| AAGTTCAAAG | ACCTGGAAGA | AAGGTTTGG  | ATTTTAAGTC  | CTTTTATAAT | GGAAGTAGGC | 851580 |
| AGCTAATAGG | GCAAGTGTTT | TCTTCAATAG | AATAGGGGGG  | GATATATTAG | TTTTAATAAT | 851640 |
| AATGACAATC | TAGAAAATAA | ATTTTCTAAT | GAAGGGGAAT  | TGTTTAAAAA | TAAATTAGAT | 851700 |
| CTGTCTCAGA | GTGACAAAAA | TTGCAATAAT | GAAATGTTGA  | TTTGCCCAA  | AACCACAATT | 851760 |
| AAGGCATTGC | TTTTAGTTAT | TTTTGGATCT | TTAATTGTTT  | CTTTTGCAAT | TTTCTTTATG | 851820 |
| GTTTTAGAAA | ATAATGAGAT | TACAGTCGTT | CCAAATCTTT  | ATTCTCTTGC | TATTGAGGAT | 851880 |
| GCTGTTCTTG | AATTGCAGAG | AAAAGAGTTG | ATTCCGCACA  | TTGAATTTAA | ATTTTCTTCA | 851940 |
| AGTGCTCTTG | ATAAAGGGAA | AGTAATAGAT | CAGGGTCCAA  | AACCAGGAAC | TGTTTTAAGA | 852000 |
| CATGGCAATA | AGGTTATAAT | TTTCATTAGC | AAAGGGGCTA  | TAATAAACAG | AGTTGATAGT | 852060 |
| TTTATTGGTA | AAAACATTGA | CGATGTTATT | ATTAATTTAA  | AGGCCAATTC | TTTTGATAAT | 852120 |
| TCTAAATTAC | TTTACCATAT | TGTTCAACCT | CTTGAGGTTG  | AAAGCGAATT | GCCAAAAGGA | 852180 |
| ATAATAATTA | GTCAAAATCC | ATCACCGGGT | AGTCAAATAT  | CAAGTTTAAC | GGATCTTCAA | 852240 |
| TTTTTAATTA | GTAAGGGTAA | AGATCATTTG | GACAAACATG  | TTAAAAATTA | TGTTGGAATT | 852300 |

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GCGTATTGGT AGAAATGTTT TTAAGATTGC TTTTGAAAGA GGAATTGATA TTGTCGCAAT 857340  
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TCATGTGAAT CATGCTGGGG CTAAGAAAGT TATTTTAACA GTTCCTGCTA AAGACGAGAT 857640

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|------------|-------------|------------|------------|------------|------------|--------|
| TAAAACAATA | GTTCTTGGTG  | TAAATGATCA | CGATATTAAT | TCTGATTTAA | AGGCTGTGTC | 857700 |
| AAATGCTTCA | TGTACAACCA  | ATTGCTTGGC | TCCTCTTGCA | AAAGTACTTC | ATGAATCATT | 857760 |
| TGGAATTGAA | CAAGGACTTA  | TGACAACAGT | TCATGCTTAT | ACTAATGATC | AAAGAATTTT | 857820 |
| GGATCTTCCT | CATTCTGATC  | TTAGACGGGC | AAGAGCTGCT | GCACTTTCTA | TTATTCCAAC | 857880 |
| TTCAACCGGT | GCTGCAAAAAG | CAGTTGGACT | TGTTTTGCCC | GAACTTAAGG | GTAAGTTGAA | 857940 |
| TGGTACTTCA | ATGAGGGTGC  | CTGTGCCAAC | AGGTTCAATA | GTTGACCTTA | CAGTTCAACT | 858000 |
| TAAGAAAAAG | GATGTTACAA  | AAGAAGAGAT | TAATTCTGTG | CTCAGGAAGG | CATCAGAAAC | 858060 |
| GCCTGAGCTT | AAAGGTATTT  | TGGGGTACAC | GGAAGATCCA | ATTGTATCTT | CAGATATAAA | 858120 |
| GGGGAATTCT | CATTCTTCTA  | TTGTTGATGG | TCTTGAGACA | ATGGTTCTTG | AAAATGGATT | 858180 |
| TGCAAAGATA | TTGTCATGGT  | ATGACAATGA | GTTTGGATAT | TCTACAAGAG | TGGTTGATCT | 858240 |
| TGCTCAAAAA | TTGGTAAAAT  | AAGTAAGCTT | AAGGTAATAA | AATGTCAATA | AAAACAGTAA | 858300 |
| AAGACTTTAG | TAGCTTTGCG  | GGCAAGCGAG | CTTTAGTAAG | ATGTGATTTT | AATGTTCCCC | 858360 |
| TAAAAGAGGG | GAGCATTAGC  | GATGATACTA | GAATTAGGGC | AGCATTGTCT | ACAATAGAGT | 858420 |
| ATCTAAAAGA | AAGAGGAGCT  | AGGATTGTGC | TTGTAAGTCA | TTTGGGTAGA | CCAGATGGAA | 858480 |
| AGAAAAATCC | TAAATATTCT  | CTTAAGCCGG | TTGCCAATAG | GTTGTCAGAG | CTTTTAGGCC | 858540 |
| AAGATGTCAA | GATGCTTTCT  | GATTGTATTG | GAAGTGAGGT | TGTAAATAGT | ACCTTGCAAA | 858600 |
| TGAAGGATGG | GGATGTTGTA  | TTGCTTGAAA | ATGTAAGGTT | TTATGCAGAA | GAAGAGAAAA | 858660 |
| ACGATAAAAA | TTTTGCAAAA  | AACTTTCTG  | AAAATGGAGA | TGTTTTTGTA | AATGATGCTT | 858720 |
| TTGGCGCAGC | TCATAGAGCT  | CATGCTTCAA | CTGTGGGAGT | TGCTGATTAT | TTGCCGTCTG | 858780 |
| TTGGTGGAAT | TTTAATGGAA  | AAAGAAGATA | AATTTCTTGG | TGGAATATTA | AAAAATCCCG | 858840 |
| AAAGGCCATT | TGTTTCAATT  | ATTGGTGGTT | CTAAGGTTTC | TTCAAAGATT | GCGGTACTAG | 858900 |
| AATCACTTTT | GTCAAAGTCT  | AATGTAGTTG | TGATTGGCGG | TGGAATGGCT | TATACTTTTT | 858960 |
| TGCATTCCGA | AGGATATTCT  | ATAGGCAAAT | CTCTTTTAGA | GGACGAATAT | ATTGGTATAG | 859020 |
| CATCTTCTTT | TTTAAAGAAA  | GCAAAAGAGC | TGGGCGTTAA | AGTAATTTTA | CCACTTGATC | 859080 |
| ATATTGTAGC | TGATGATTTT  | AACAAAAATT | CAATTCCTGA | GTATATTGAC | TCCTTTAATA | 859140 |
| TTCCTGAAAA | CAAGATTGGC  | ATGGATATTG | GAGCTAATAC | TTTAAAAGAA | ATTGAAAATG | 859200 |
| TTGTGAAAAC | TGCCAAAAC   | ATAATTTGGA | ATGGTCCTCT | TGGTGTATTT | GAATTTGATT | 859260 |
| CATTTTCAAA | AGGGACTGCT  | AAGGTTGCCG | AAATGGTAGC | ATCTTGCTCA | GGTTTAACCG | 859320 |
| TTGTTGGTGG | TGGAGATTCT  | GTTGCAGCTG | TTAATAAATT | TAATTTATCT | GATAAGATTA | 859380 |

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|---|--------|
| CTCATGTTTC AACGGGCGGT GGTGCATCGC TTGAATATCT TGAAGGGAGA ATTTTGCCGG   | 859440 |
| GTATTAAGGT TTTGGAGAAT TAAAATGAGA AAAACATTTT TAGCGGGAAA TTGGAAAATG   | 859500 |
| CATTATACAA GTGCAGAAGC TTCTATTGTT GCAAAAAAAAAA TTGCAACTGA GGTTAAGACC | 859560 |
| TTAAAAGATG ATGTTGTAAT AATGATAACT CCCCCATTTA CGGCTTTATC TAAGGTTTCA   | 859620 |
| GAATGTATTA AGGGTAGTAA CATTCTCCTT GGTGCTCAAA ATATGTCTTA TATGGAAAGT   | 859680 |
| GGAGCAAGGA CAAGTGAAAT TTCACCTTCA ATGCTTTTAG AATTTGGAGT AGAATATGTT   | 859740 |
| ATACTTGGTC ATTCTGAATG TAGGTTGTAT TTAGCAGAAA CAGATGAAAT AATAAATAAA   | 859800 |
| AAGATTCTTG CAGGACTTAA GCATCCTTTC AAATACTTAA TTCTTTGTGT TGGAGAAACT   | 859860 |
| CTTGATGAAA GAGATTCTGG AAAAAGCTTTA GAGGTTGTTT TAAATCAGGT TAAAAAGGGG  | 859920 |
| TTAAATTGTG TTTCTGAATC AGATATTCAA AGGATAATTT TAGCTTACGA ACCTGTTTGG   | 859980 |
| GCAATTGGAA CGGGTAAAC CGCAACTAAA GAAGAGGCAG AAGAGGTTCA TAAGGCAATT    | 860040 |
| AGGCTTGAGA TTACGAAGCT TTATTCAAAG TCAGCTTCAG ACAATATTAT AATTCAGTAT   | 860100 |
| GGAGGCTCTG TTAATTCAAA CAATGTAAAA GAGCTTATGA ATGAGCCTAA TATTGATGGT   | 860160 |
| GCGCTAATAG GTGGAGCATC TTTAAAGGCC GAATCTTTTT TATCTATAAT TAACAATGTT   | 860220 |
| CTTTAGTTGA AGAGGTTTGT TTTGGATTTA GTTAGATTTT TTATTTTTAT AATTTTTGTT   | 860280 |
| ATTGTTTCGA TTTTATTAT CCTTTTAGTT TTAATTCAAG ATGAGCAGGG TGATGGAATA    | 860340 |
| GGTGGTGTTT TTGGGGGTGG TAGTCTTCTT ATTTTTGGGG CAAAGTCTTC AAGTGTGCT    | 860400 |
| GTAAAAATTA CTGGATTTTT TATAGCACTC TTTTTTATCT TTGTAGTTTT GTTATCTTTT   | 860460 |
| CTAAACACCA GAAGAGCAGA TGATAGCTTT CTAAATGACA TAAAGACTGA AAACAAGAAT   | 860520 |
| AGTTCAACTT TCTGGGATGA TGAGAATAGT GAATCAGATG CTAATATTAA TGAAATTAAA   | 860580 |
| GAAAACAATT TGAAAGAAAA ATAATTTAAA TTGGTTACTG TTGTGTATAC TATGAGTAGT   | 860640 |
| ATTTACTCAG AGTTTTTTTAC ATAAAGGAAT TTAAATCAT AACCATTATT AAATTTATTA   | 860700 |
| ATTTTATTGA AAGTTTATTA TGTTTTTATT GTGTTTTTTT AAATAATCTA AAGCACTGCT   | 860760 |
| AAAATGATTT GATCCTAAAA ATCCATTGTT TGCTGAATAT GGAGATGGGT GACTTGTTTC   | 860820 |
| AAGAATTAGA TGCTTTGTTG GGTCAATTAG CCCTTTTTTA CTTCTTGCTA AATTGCCCCA   | 860880 |
| AAGCATAAAC ACAATGTTTT TCAAATTTTT AGAGATTATT TTTATTACTT CATCTGTAAA   | 860940 |
| AATTTCCCAC CCAATAGCTT TGTGAGAAGA AGGTTTGCCT TCTTCGACTG TTAAAATTGT   | 861000 |
| ATTTATTAGA AATACACCTT GAATTGCCCC TCTTTTTAAA TCTCCGTTTG GGATGGTTTT   | 861060 |
| TATTTTTAAG CTTTTTTCTA TTTCTTTAAA TATGTTCTGC AAAGATGGTG GAATTTTAAT   | 861120 |
| TTTTGAATCT ACAGAAAAAG CAAGTCCATT TGCTTGGTTT TTTCCATGGT ATGGATCTTG   | 861180 |

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|------------|------------|------------|------------|-------------|------------|--------|
| TCCAATTATT | ACCACTTTTA | TGTCTTTAAA | TGGTAAAGAA | TTAAAAGCAT  | TGAATATGAG | 861240 |
| TTTTGGGGGA | GGAAATATTT | TTCCATTTTT | TGTTTTATAT | TCATGTTTAA  | TAAATTTTAC | 861300 |
| GAGCTTTTTA | AAGTACTCTT | TGTTAAATTC | ATTGTTTAAA | ACTTCTTTCC  | AAGATTCCTC | 861360 |
| AATTTTTACT | TTCATTTTTG | TATTATATAA | GAAATAGTTT | GCAATTTGAA  | ATATATTAAA | 861420 |
| GGACTGATTT | GTTATTTTTG | AAATTTAATT | TTTATTATGG | ATGATGATGT  | ATTAAAAAGA | 861480 |
| ATAGGTGTTT | TGTCTAAATT | TATTACAGAT | GAAAAAAAAG | CTAGGATTGA  | GAAAGTATTA | 861540 |
| AATCTTCGTA | CCAATTATTT | AACATTTGTT | CTAGAAGACA | TTTTTCAGTC  | TCAAAATGCA | 861600 |
| AGTGCTACTA | TTAGAACAGG | CGAAATTTTA | GGACTTAGTG | ATGTTTCATGT | CATTGAAAAA | 861660 |
| AAGAATAAGC | ATACTTTTAA | TCCAGATGTT | ACTTTAGGAT | CTTCACAATG  | GATAAATTTA | 861720 |
| AATAAGTATA | AAAATGCTAA | GTTTGCAATT | GATAGGTTGA | AATCTGATGG  | ATATAGTATA | 861780 |
| GTGGCCACAT | CTTTGAATCC | CAAATCAATA | AATCTTGAAA | ATTTGACAAT  | TAACAATAAA | 861840 |
| ATGGCGATAT | TTTTTGGGAC | TGAATTAACA | GGGCTTAGTG | CAGAGGTATT  | GGGAGCTGCT | 861900 |
| GATTTATATG | TAAAAATACC | TATGTATGGG | TTTACTCAAA | GTTATAATAT  | TTCTGTAGCT | 861960 |
| GTTGCAATAG | TTATGTATTC | TTTATTGATG | CGCTTAAGAA | AAAGTAGTAT  | TGATTACTTG | 862020 |
| CTAAATGAAG | CTGAGAAATC | AAATTTGAGA | TTAAAATATT | ATAGACAAGT  | TGTTAAAAAT | 862080 |
| TATCAATTTA | TTGAGAATCT | TATTAATTCT | TAAGCTTCTT | TTATTTTTTT  | CCAAGAATTT | 862140 |
| ATAAATAGGT | AAAAAATGGT | ATCGATTGCA | ATTATTATTA | ATGTAATAAT  | TAGAGAGCCT | 862200 |
| TTTGTAAGTT | CGATATTTTT | TGTTTCAGGG | TAGAATTTAA | GTATTGTATT  | TATAGATATT | 862260 |
| GAAACTAGAA | AATTAGCCAG | ATATCCAGAA | ATTAGTCTTG | ATAGAGGATG  | AATGATCCAT | 862320 |
| AAAGATTTTA | TTTTTATTTG | CTTTAAATAA | TTATATAGTA | AGATGTTTGT  | ATATTGGGAT | 862380 |
| AGAAAAACA  | CATACGTTCC | AATTAATATT | GTTAAAAATG | ATGTAGAGTT  | ATTAAACAGT | 862440 |
| ATTTTAAGAT | GAATATCTGC | GGTGTCTAAT | TTATTATGAT | TGAATAGTAT  | CGTAAAATAA | 862500 |
| AGCATAATTG | TAAAAGTTAT | GTTTAGCAAA | AGACTCAATA | CCACGGATTT  | TGTTGCTTCT | 862560 |
| TTTTTGCTGT | ATTTTTCTAC | CATTAAGTTT | AAAGAGAATG | CTGCTGATAA  | AAAGGTAATG | 862620 |
| CCTGATAAAT | TTAAGGACAT | TCCAAATATT | TTAAATTTTC | TTAATATTAT  | AATGTTTGAC | 862680 |
| ATTGTTGAAA | TAATTGCATT | GAAACAAAAA | AGCCCAGATT | TTCCAAAAAA  | TCGGTAAAGA | 862740 |
| ATTCCCAATG | CTGTATATAT | AAATAGAAAC | ATTCCTGTCC | ACAAGCTTAA  | ATCAAACATA | 862800 |
| TCCTTATTCA | TAACATTTAA | TTGTAGCAGA | TTGATTATCT | TAGATAAAGT  | TTTTTATTCT | 862860 |
| TGCAATAAAC | TTTTTCATTT | TTCAAGTTTT | ATATATTTTG | CAAAATATAT  | GAAAGGCGTT | 862920 |

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|------------|------------|------------|------------|-------------|-------------|--------|
| CCCAAGACAC | CTGCTACAGC | TTTAATTACG | TATGTGAAAA | TTACTATATT  | TAGGAAAGCT  | 862980 |
| TGTTTTGGAA | ATACTTTGAA | ATATGTTGCT | ATGCCTACAA | AAATTGTTGT  | ATCTATTAAG  | 863040 |
| CCACTTATTA | ATGTTGATCC | ATTGGTTCTG | AAAAATAAAA | ACCTAGGAAA  | TTTTTTTTTTA | 863100 |
| ATAAGCTGAT | ATAGATAAAC | ATCGTTTAAT | TGGGATATTA | GGTATGCAAC  | AAGAGAGGCT  | 863160 |
| AGTAGTAAAG | CTGGCATTGA | AGAGAAAATG | TTTCCTAAAC | TTTTAAAATT  | TTCTTGAGTC  | 863220 |
| CTATTTGACA | TAAAGTGAAT | TTGCGCATTT | GTTAATACTG | CAAAGATAAT  | AAAGCTGATA  | 863280 |
| AATCCAATAT | AAACGGCTTT | TTTTGAAGTT | TTTTCTCCAT | AAAATTCTGA  | GAGCATGTCT  | 863340 |
| GTTGCAATGT | ATGATGATGT | ATAAATAATG | TTGCCCAATG | TAGCATTAAT  | TCCAAATATT  | 863400 |
| GTAATTTGTT | TTAAACTTG  | AATGTTTGCT | ATAATAATTG | CTACTGCAAC  | CCATGCAAAT  | 863460 |
| AATCCGTTTT | TTTTAAAAAA | AATGGATACA | ATAATCAAAA | ATGAATAAGT  | GGTAAATAGC  | 863520 |
| ACGCCAAACC | ATAAAAATTC | ATTAAACATA | AAATTACCTT | TTACTGATAT  | TTGATTTACT  | 863580 |
| ATTATAAAAT | TTTAGCTTAG | TTTTTTCAAA | TAAGGCGGTA | AGTATTGTTG  | TTTTCTTAAA  | 863640 |
| ATTATGCTAT | AATAACCTTT | ATATGAGGGG | ATGTTTTGGA | TTTGA CTGAA | AATGTTAATA  | 863700 |
| TTGTAAGTTG | CAGGCAGAGG | GAATCTCTTA | AACTTCTAA  | AATAAATGCA  | AAAAATAATA  | 863760 |
| ACTTTACAAG | CTCAAATCTT | GTAATGGCTG | CTTAAGTTAG | CAGAGGGTTT  | TGTTGAATTT  | 863820 |
| GGCTTTGAGG | TTCACTTATA | CTCTTTTCGA | CATCAAAGCT | TGCTTAAAAA  | TGTTTTCAAG  | 863880 |
| TTGATTTTTA | GGGACTTTTA | TACTTGAGAG | CAATTTGGTG | GTTTGCTAGT  | ATTTCCAAAC  | 863940 |
| CATATTGCTT | AATAAAATAC | TAGATAAGCT | TGTAGAAGCT | TATAGTATTA  | TTTTTTAGGAC | 864000 |
| GCGGGTTCAA | TTCCCGCCAT | CTCCATTTAT | TTTATTCTTT | TTTTTATCCT  | TTAAACATAA  | 864060 |
| TTCTTATTCC | CAACAAGCAT | TGCTAAGCTT | AGAAAATTTG | TTGTCATTAT  | TTTAAGCGTC  | 864120 |
| CTATCGGAAT | CGAACCGACA | TCATTAGCTT | GGAAGGCTAA | GGTAATAGCC  | ATTATACGAA  | 864180 |
| GGACGCAATA | CAATAATTTA | CTTATATAAA | AAAAATCAAT | TTATGTCAAT  | AAGATTTATT  | 864240 |
| GTAATGTTAT | TTTTAGCTAG | CAATTTTTTT | TTTAAATAAG | TACAATTAAT  | TTAGCTTAAA  | 864300 |
| TGTAGTCAAG | TACAAAAACT | TGTGTGGAGG | AAATTGATGG | GAGAGAGAGG  | GGAAGTATAC  | 864360 |
| TCTGAAAAAC | TATTTACAGA | GTCTGAGAGA | ACTTATTTTT | TTAATGTCAA  | GGAAAATAGA  | 864420 |
| AAAGGAGATT | ATTTTTTTAA | TATTGTAGAG | AGCAAAAGAA | GTCCAAGTGG  | AGATTTTGAA  | 864480 |
| AGACATTCTA | TTTTTGATA  | TGAAGAGAAT | ATAAATGAGT | TTGAATCCAA  | TTTGCTTAAG  | 864540 |
| GCAATAGCGG | TTATTAAGCA | GAAAGTATCT | ACGGGGTCCG | TTGGCTCTTC  | TGCAAGGCAT  | 864600 |
| AATAAAGGGT | ATGGTGAATA | TGGGGAGAGA | TCTAAATTAG | ACGATTCTAG  | ATTTGATAAG  | 864660 |
| AAATCTCATT | TATCAGGCGG | GCGATTTAAA | AAGAAGGATT | ATTAAATTTT  | ATTATTTTTTA | 864720 |

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|-------------|------------|------------|------------|------------|------------|--------|
| TTTTTTAAAT  | TAGTTTAAAA | TTTTTTCTAT | GAAGGCTTAA | GACCCCATAT | TTCTTTATTG | 864780 |
| CGTTTTTATG  | TTCTTTTGTG | GGGTATCCTT | TATTTTTTTT | GAGTAAATAC | AATGGGTAAA | 864840 |
| TTTTATCATA  | TTTATCCATT | AGTTTGTCTC | TTTAACTTT  | AGCAATAATT | GAAGCAGCTT | 864900 |
| TTATTTTCATC | TATTATTGAA | TCTCCTTTAA | TTATTGCTTT | AACATTTTTT | GCTGTTATTT | 864960 |
| TGGGTACAAA  | TTTGCCATCT | ACAAGTACTA | AGCTGCAATT | TAATTTTAGG | TTTTCGTATG | 865020 |
| CAGTTTGCAT  | TGCAAGAAGG | GATGCGTTGT | GAATATTTAT | TTTTTCTATT | GTTATATTTG | 865080 |
| AAATTTTCAGC | AAATGCATAA | TATGAGTTTT | CAAGTATTAA | TGAGGATAGG | TACTCTCTTT | 865140 |
| TTTCTTTTTT  | TAGTTTTTTA | GAATCATCCA | ATTCTTTTAT | AAAGCTGGGC | TTTTTTTTGA | 865200 |
| AAACCACAGC  | AGCACTTAGA | ATAGGTCCAA | AAATACAACC | CCTTCCGACT | TCATCTATTC | 865260 |
| CGCAAATCAT  | AATTGACCTT | TTTTTAAAAT | ATTTTTATTT | ATTATAATAT | GAAATTGTAG | 865320 |
| ATTTATCAGT  | AATTGGTTTT | TAATTTTAAT | TGGGAGTTAG | TTTGGTTTTA | AAAAAATAG  | 865380 |
| TGCTTTTAGG  | GTTTAAATCT | TTTCTAAATA | GACAAGAGTT | TGAAATAGGT | GAAAATTTAA | 865440 |
| GTTTTATTGT  | GGGGCCTAAT | GGATGTGGGA | AGAGCAATCT | TATTGATGCT | GTACGTTTTT | 865500 |
| GTATGGGAGA  | AGATAATTTA | AAATTTTTTA | GGGTGAAGA  | TATTTCTGAT | TTAATTTCTG | 865560 |
| TTTCAAAATC  | AGGAAAATCA | AATTTTGCCG | AAATAACTCT | TTTTTTTAGC | AACATTAACT | 865620 |
| CTGAAAAATC  | GACTTTAAAG | GAATTTAATG | AAGATTTTTA | TATTCGCAGG | CGTCTTTATA | 865680 |
| AGGATGGTTC  | AAGTGAATAT | TATTTTAATA | ATAAAATTTT | GAATTTTCAA | GATTATAATA | 865740 |
| GACTTTTGAA  | CAGTTTTAAG | TTTAAAAAAT | CGCCTTATAT | GTTTATAACT | CAAGGTAGGG | 865800 |
| TTGAGGACAT  | TTCTTTGGAA | AGAAATGTAA | ATCTCAAATC | TTTGATTGAA | CAAGCAAGCG | 865860 |
| GAATAGATAT  | TTTAAAAATG | GAAGAAGAAG | AGGCCTTGAA | AAATTTTAAG | CAATCTAGTC | 865920 |
| AAAATTTATC  | ATCTTTGTTG | TCTCTGCAAG | AAAATTTAAG | GCAAAAGTAC | GATAACATAA | 865980 |
| AAAATGTTTT  | CCTTTTGAGA | AAAAAACATC | AAGATTTAAG | TCAAAAATTA | GAAGCTTTAG | 866040 |
| AAAAACAAT   | AACGTAAAAA | AAGCTTTTCA | ATATTAATTT | TGATCTTAAT | GTCTTGAAGA | 866100 |
| GCGAATTAAA  | TTTAGACGGT | TTGAGTAAAT | TTTTGTCTTC | TGGTTTTAAA | GAAAAGTTAG | 866160 |
| AATTTTATTC  | ATTTAGAGAA | AAAAATGTTA | TTAATAATAT | TCAAGAATTA | GAAAAAGATC | 866220 |
| TTGAGCTTAT  | GAAGTCTAAA | ATTCTTGGGC | TAGAGATTAA | AATTCAAAAA | TTAGAGCAAG | 866280 |
| AAAAGACGTT  | AAAGATGAAT | TTGGAAGATA | AGTTTGTCAA | GAGCAAATCT | GAGTCTGAAG | 866340 |
| AGAAAAAGAA  | TTCTATAAAT | AATAATTTAT | ATCAATTAAA | TAGTTTGCTT | AAAGAAAAGA | 866400 |
| AAAATGATTT  | TTTTTCTTTA | AGTGACGAGA | TTAATAGGTA | TACTAAAAGT | TTTTTTGAAC | 866460 |

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|-------------|-------------|-------------|------------|-------------|-------------|--------|
| TTGTTGATCT  | AATTTTGTCT  | GTATTAAGGA  | GTGCCAAATC | AGAAGAGTTT  | GTTTTATTAA  | 866520 |
| AAGAGCATAT  | ATTAGACTCT  | CTTAAACTTT  | TTGAAGAATC | ATTGAGTATA  | AAATATATTA  | 866580 |
| AAGAGATTAG  | GGTAAATTTA  | ATCAAGTATA  | TAAGCAAAGA | TGAGAATCTT  | TTGGC'TTTAT | 866640 |
| TGAGGGATAA  | AATTGAACCT  | ATTTT'TGATC | AAAATGTTAA | TTTGAAAAAA  | TTTTTGCTTG  | 866700 |
| AAAAAATGC   | TTTAAATCA   | AATCTTGCTA  | AAGAGATAAC | AAATATCGAG  | AGATTAATCG  | 866760 |
| AAGAAAAGAC  | TCTTCAATTA  | AATGATGTAT  | TGGGTGAGCT | TGAGTATATA  | GAGCTTTCTA  | 866820 |
| AGTTTAAAAA  | TTTGGATGAA  | ATTAAACTTA  | TAGATGGTAA | TTTAGAATTT  | TTATTTGAAT  | 866880 |
| CTAAGAATAG  | CCTTGATGAA  | GAGCTTAAAG  | ACTTATATTT | AAAGCTTGAA  | AATTTAAATT  | 866940 |
| TAGAAAAAAG  | CGATATTCAG  | CTTAATTTAA  | GCAATCTTAT | TGGTGCTTCA  | AAATTCAGTA  | 867000 |
| GTGAGTCTTT  | TAAGGAGAAA  | GATTTTAATT  | CCTTAGTTTT | TTTGAATGAT  | TTTAAAAAAA  | 867060 |
| CTAATTATTA  | TGAATATATA  | AAAAAACAGA  | CAGAATACGA | ATTTCTTTTA  | AATTCTAATG  | 867120 |
| TAAGCATTAA  | GAGCGAAATA  | GAAAAATTTCA | ATGTTTCTAA | TGAAATGTCT  | GATAAATTTG  | 867180 |
| AATTGGAAGA  | AGATCTTGCA  | ACCAGAGAGT  | TGTTGCGCAA | AGAGATAGAT  | GCAATCAAGC  | 867240 |
| TGGGTGATTA  | TGTATTTTTC  | AATATTGATA  | AAGAGTTTGA | TGAAACTAAG  | GAGCGTTTTG  | 867300 |
| AAAAAGTAAG  | TTTACAAGTA  | GAAGATTTAA  | AGCTTTCAAA | ATATTCATTA  | CAAAAGCTTC  | 867360 |
| AAAAAAAAAT  | AAAAAATGAG  | ATTTATAAAA  | AATTTAGAGA | ATCATTTGAT  | GAGATTAATA  | 867420 |
| AAAATTTTTC  | TTTCTTTTTT  | AAAAAAATTT  | TTAAAGGAAC | CGCTAGTCTT  | TTTTATAATG  | 867480 |
| AAAATACCGA  | TAATGTTGAG  | ATTAGAATAA  | ATTTTTCAAA | CAAGTTTGTC  | AAAAACAATA  | 867540 |
| ACATGCTTTC  | AGGGGGCGAG  | AGTACTTTGG  | TTAGTATGGC | TTTTTTATTT  | GCACTTTATT  | 867600 |
| ATTATTCTCC  | TGCTTGTTTT  | TGCATGCTTG  | ATGAAATAGA | TGCAGCTCTT  | GATTTTGAAA  | 867660 |
| ATAGCAAAAA  | ACTTTCTTTA  | CTTTTAAGAG  | AATTGGGTAA | AAAGTTCCAA  | CTCTTAGTAA  | 867720 |
| TAACCCATAA  | TGCATATGTT  | TCTGAGGGTG  | GTGAAAATTT | GATAGGTATT  | ACACTTGATA  | 867780 |
| ATGGTGAAAAG | CAGGGTGTTT  | AATATATAAT  | TAAGTTAGAT | TTAAGGAAAT  | TAACATGCAA  | 867840 |
| GATAGAAAGT  | TTAGTTT'TAG | AAAATATTTT  | TTAATTTTCA | TATTTT'TGAT | TTTTATTGTT  | 867900 |
| TCTGGTATTA  | CTTATTTCTA  | TTCAACACAA  | ATGTTGGAAA | AATCTCAAAA  | GTGTGTTGAA  | 867960 |
| GACAATTTAG  | ACGCTAAGGT  | TAAATTAGTT  | GATATGGAAG | ATTTT'TATTT | TGATTTAAAT  | 868020 |
| GAATGTCTAA  | ATATGGATGA  | TTTTTTTATT  | CCAAGACCTG | ATTTT'TTAAA | TGAAAAATTA  | 868080 |
| AATAAGAATT  | TAGTTGTTGA  | TGGATTGATT  | AAAAATAAAT | TTCTTGATGA  | GAATTTT'TTC | 868140 |
| AAGGATCTTT  | GGATTAAAAA  | GGAAAATTTA  | TTTAACGTTG | ATATTGAGAA  | GGAGAATGAA  | 868200 |
| AAATTAATAG  | ATAAGATTTT  | AGAAATTTCC  | AAATGATTAG | AAAATATTTG  | ATTTATATAA  | 868260 |



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| GTTTGCTATT TATTGTTTTT GAAGTTTACT CTAAGCCAGC TTTTATAAGT CAAGACGATT  | 868320 |
| CGTATGAGCT TGATTTTAGT AGTGGAGAGG TAGATATTAG TGTAATACC AATTCAAAAT   | 868380 |
| TTAATCTTTC TTTTAAAGAT GAGTCTTGA TTTATATCAA AAGCATTGAA AATGAAGCTT   | 868440 |
| TTATTAAGTT AATTGGAGAA TCTTATGATA ACGGTGCTGT TTTTACTTTT CAGACTTTTA  | 868500 |
| AAAAAGAAGG CAAAATTAAA TTGGTTTTCA CTTATCAAAA TGTTAAAGAT TCAAGTGAAT  | 868560 |
| TTAATAAAAT AATTATCTTG AAAATTACAA AGAATTTTGA AGTTGCAATT CCACAAGGCG  | 868620 |
| TTGGTGGTGG CTCTAGCAGG GACAATAACA TTGAACTGG TAATAATCTT GAACTTGGGG   | 868680 |
| GGGGGAGTAT TAGCGGGGCA ACTTCTAAAG AGATTATTGT TAGGGCTTTA AATTTGTCCT  | 868740 |
| ACATAAATGA TTACAAAGGA GCAATAGATT TGCTTAATAA GTATAATTTT AATGACGATA  | 868800 |
| AATATATTTT ATTGAAGGCG GAAATTCATT ATAAAAATGG TGATTATTTA AAATCTTATG  | 868860 |
| AAAATTATTT GAAATTGAAG AGTAAATATT TTCAAAGCAT TGTTTTTGAT CTAATTAGGC  | 868920 |
| TTGCTATAGA ATTAAATATT AAAGAAGAGG TTTTAGAGAA CGCTAGATAT TTAGTTGAAA  | 868980 |
| AGAATGTTGA TTTTCTGAG AGCATTTATC TTGAGATCTT TGAATCTTA GTAACAAGGG    | 869040 |
| GAGAGCATGA GTTTGCTTTA AATTTTAGCT CTCTTTACTT TCCTAAGTAT ATTAATTCAA  | 869100 |
| GCTTTTCAGA CAAATATAGT TATTTGTTGG GAAAACTTTA TGAGTCTGAG AGCAAGCATA  | 869160 |
| AAGATTTTTT AAAGGCTTTG CATTACTATA AATTGGTTAT TGATAATTAC CCTTTTAGTT  | 869220 |
| ATTATTATGA GAGAGCCAAG ATAAGATATT TATTTTTTAAA GCGGTTTTTT TAGGAGACAT | 869280 |
| GATATGATAA GGAGAAAGCT TACTAAACAA CTTGAAATAA TAAAAGATTA TCTTTGGGAT  | 869340 |
| ATGAAAGAAT GTGTGCTTAA GATTATCGAT GATTCTTTAA TAGCCTTAGA ATCTAAAGAT  | 869400 |
| AAAAATTTAG CCAAAAAAAT AATCAATGAA GATGAAAAAA TAATAGATGA TTATCAGTAC  | 869460 |
| GATATTGAAG ATTTGTGCGG AAGAATAATT GCAACTGAGC ATCCTGTTGC TACAGAGCTT  | 869520 |
| AGAGAAATTT TAGCAATTAT TAAAATAATA AGCTCTCTTG AAAGGATTGC AGATCATGCT  | 869580 |
| ACTAAGATTG TAAAGGTTGT TCTTCTACTT GAATCAGATT TGGATGATTT TGATTTTCTT  | 869640 |
| AATTTATATT TTAAACCTTT AAGAGAAATG GCCGATACAG CTAAAGAAAT GTTGTCTGAT  | 869700 |
| ATTTTGTGACG CATATTTTGA TGGAGATTTT ACCAAAATAT TAAAGATAGT TAAGTATGAC | 869760 |
| AATATAATAG ATAAATTATT TTCAAAGCAG AAAAGTATTG TTATTGATGC AATGAAAAAA  | 869820 |
| AATCCTGAAA ATTTGGATTA TCTTTTAAAT ATATTATTTT TGAATAGTTT TTTAGAAAGA  | 869880 |
| GTAGGCGATC ATGTAGCAAC AATTGGTGAA TTGCTCTATT TTATTAGAAT AGGTGAAAAA  | 869940 |
| GTAAACTTAA CTTAGCAGTA TTATTTTTAG ACCTTTTAAAG CTAAATAAAT TTTGCATAAT | 870000 |

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| AGAAAATTTA TTATAAAAAG AATTGATGCG CATAAGCATT AATTCCTTTTT ATAGGTGGCA | 870060 |
| GGCATTATGT ATTCAAGATT TTTGTTTCCT CTGATTGTTT CTGAATGTCC AATTAAAAGA  | 870120 |
| TAAGAATCCT TTTTAAGGTA GGAGTTGAAT TTATTGGCAA GGTTATTCCT AGTTTTTTTCA | 870180 |
| TCAAAATAGA TCATGACATT TCTGCAAAAT ATTAGGTCAA ATTTTTTGCT AAATGGAAAT  | 870240 |
| TTCTCATCCA TTAAATTTAA TTTTTTAAAG TAAACCATTT TTTTAAAAT TTCTTTAACT   | 870300 |
| TGAAATTTAT CATCTTGAAG TTGATTTAAA TATTTAATTT TTAAATATTT GGGCAAATTT  | 870360 |
| ATTATGCGAT CTTCAGGATA AATCCCTTCA CGAGCCTCAT TTAGAACGCT AATTGAAATG  | 870420 |
| TCTGTTGCTA AGATTTTGAC TTTAAAATTT ACTCTATTAT GTTCCATATA TTCTTTTAGC  | 870480 |
| ATCATTGCAA TTGTATAAGG CTCTTCACCA CTTGAACAGC CAGCTGACCA TATTCTAATT  | 870540 |
| TCTGAGTTTT CTGAGTTTAA TATTTTTTCA GTAAGTTTGG GTAATATTTT ATTATTTAAA  | 870600 |
| AAATCAAAAT GCTTAGATTC TCTGAAAAA TAGGTATGAT TTGTTGATAT TTTGTCTATT   | 870660 |
| AATTCGATTA ATTGAATATT TCCAGTGCTT TTTTCTAAAA AGTTGATGTA TTCAGTAAAA  | 870720 |
| TTTTTAAAC CTTTAACTTT CAGAAGAGAT GATAATCTGC TTTCAATTAG CAGCTTTTTT   | 870780 |
| TTTTCGCTGA GATTGATTCC AAAATTATTG TAAACTATTT TTATTAATCT TGAAAGTTCG  | 870840 |
| TCCTTAGTTA TATTTATATT AAGGTTGAAT TTGTTTTGAT TCGTGTCAT AACTTTTTGA   | 870900 |
| TCTCATCTC CTTTTTTATC CATAGCGATT CGTTTTCATA CTAGAAATGT AAAATTTTTT   | 870960 |
| TAGTTCTATA AACTTAAAGC GTATAGCTTA AGTTAGATAT TTCAATTGCA ATAATTTTTT  | 871020 |
| AATTGTGATA ATTTAGTAGT TAAATTATTA GTATGCTTAC TTATTAAAGG TTGTTTTATG  | 871080 |
| CGAAAAAGAA GTAGAAAAGT CAAAAATGAT TTAGTTGTGC TTGAATCTAA AGAAAAAAA   | 871140 |
| GTGGTATGT GGGGTATTTT TGCTCTTATT TTGATTGTTT TCGGATTTAT TATTGCACCT   | 871200 |
| TTACTTCCAG GGATATTTGA TAATGCTCAT TCATCTGGTT TAAATTTGG TTCTTATAAA   | 871260 |
| GGTCAACCTA TTTACTATAA AAAAGATAGT AAGTTTGCCA AGTATGTTAA TTATTATTCA  | 871320 |
| AATCTTTATT CTAGATTGCA GGGTAATGCT AAAAATATTA ATACAGATTA TAATGCCTGG  | 871380 |
| TATTTGGCAT TTATGAAATA TGTGAGGAT GTTGCTTTTT TGGACCTAGT AAAAAATAT    | 871440 |
| AATTTTTATA TTTCTAAAGA AATGTTGAAT AAAAATTTAC TTAAATCTCC AGAATATTTA  | 871500 |
| GACTCTAGTG GAAATTTTCA TTCTAAAAGA TATAATAAAG CTTCTGATTA TCAAAAAGTT  | 871560 |
| AAAATTTATG ATGATATGGT AGAAAATATA TTGTTTTCTA ATGTTAAAT TTTTTTAAAT   | 871620 |
| AGTAATTTGA TATTTCCCGA CTCTCTTTTT GATATGATTA AAAATATGAG TACTGTGGAA  | 871680 |
| AGGCATATTT CATATCTTTC TCTTTCCTAT CAAGATTTTT CTAATAAAGA GGTAATATCT  | 871740 |
| TATGCTGAGA AGAATTTAAA TTTATTCAAA CGTTTATCGC TTGCATCTAT TCGTTTTAAA  | 871800 |

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| AATATGAATG ATGCTCGGAC TGCTCATGAT AAGCTATTAA ACAAAACTCC ATTTCGAGGAG | 871860 |
| CTTGCTAAGC TTTATTGAGA TGATATAGCC AATTTCAAGG GAGTTGTTTC TTTGGATAAG  | 871920 |
| TATTATTTTG ATTTAGATCT TAATGTTGAA AAGAAAGAAG ATCTAAATTC CATTTTTTCT  | 871980 |
| TTAAGAGAAG GTGAATTTAG TAAGCCTATT AAGATTAAAA ATAAAAATGA ATATCAAATA  | 872040 |
| TATAAGGCAT TTAGTAATGT TCATGATTTT GATAAAAAATT CAGATCGTGA TATTAGTTCT | 872100 |
| GTTAAAAATT ACATTGAAAC TTATGAACCA AGTGTATTG AAGGTTATTT GGAAAATAAG   | 872160 |
| CTATCTGATT TTCTTGGTGA TGTAAATTT AGCAGTTTAA GCCAAGTTCT TGAAAAATAT   | 872220 |
| CAGCTTAGCT TAAAAGAAGA AATTGTTAAT TTGTCTTATA ATATTAATGT TTACCCCAAT  | 872280 |
| ACTTTAAAGG AGTTGGTTGA GTTTAATAAT AGCAAAGTCTT TTTATGATAT TATTTTTGGG | 872340 |
| TTAAAGGAAA ATTCTTGGTC TAAGCCTTTT GTGGCAAATA AAAAAGTTTA TTTATTTTTT  | 872400 |
| CTCAATTCAG TTAAAAAAG ATCTAATCAG CTCAAAGACG AGATCAAAAA TGAAAAAATT   | 872460 |
| CTTGACAATT TTAACATTGC AAATAGTGGT TTGATTACAG ATTTTTTACT GAATAAAAAA  | 872520 |
| GATTTTGTTA ATAATTTTAA TGAGTCGTTT TTTGCTTTGC AAAACTTTAG TCAAAATTAA  | 872580 |
| GAAATAAATG TTATGACAAA GGTTTTGGTT GTTAGTGCGA TTGCTCTTCT GAGTAAGGAT  | 872640 |
| AAAGAATTAA TCCCATTTTA TAAATTTTGT TTTTATTCT TTTTTTTTAC ATTACTTGCT   | 872700 |
| TGTTCCAAGG TAAGCAAAGA TTTTATTGTT TTTAACAAAG ATGTAAAGAC TTCTTCCAGG  | 872760 |
| ATCGATAATC CAAATTCCAA TGTTTTAGAA GTTAATAAAA TGGAAGATTT TTTTGGAGAT  | 872820 |
| ATTATAGATT TAAAAGGTTA TAAAATCTT TCAGTTCAGC AGGAAAATTT AAATTTAGAT   | 872880 |
| GTGTATTTTG AGCAGGTGGT TTTAGCTCAA AATTTTCAA ATCTTAATGC ATATTTGTTT   | 872940 |
| ATTATTGGTT TTGATCCTAA AATTAAAGCT GGAACGATTC TTTTAAAAAC TCAAATAGAT  | 873000 |
| ATTGATCCAA AAAATCTTA TAACATGTAT CTTGAAGATA TTACAGGTGA TTATGATTTT   | 873060 |
| AATATAGTTA TTCAAGGATT TTTAAAAGAT AAATCTGTTT TGTATGTTTT TCAAAAATCT  | 873120 |
| GTTTTAAATG ATGTGTCTTC TTATAGGCCT ATATTTTTTG ACAAAGTTAA TGGAAGTTT   | 873180 |
| CTTATTAATA AGTATGCAAG ATCTTCAGCT TATGAAGAAA ACAGATCAAG AGAAAGCTAT  | 873240 |
| CCTATTTCTT TAGAAAAATA TGAAAAAGTG GGGGAAGATT TAATAATTAG CAAGATTGAA  | 873300 |
| AAATATGAAT ATTCTAATGT TCAGGGTAGA TATTGTCTTT CTTCTGTGAG CGAAAAAGTT  | 873360 |
| GGTAAATG ATAATAATAT TTATAAACT TTAAAGAATT TAAGCAAAGA TGAAGTTTAT     | 873420 |
| AAATTTTTGC ATGGAGTTTG GTATGATGTT CATGACTATA ATAAATGCA TGTCAAAGAT   | 873480 |
| ATTGATGAAG TTTTATTCTT GTCTTTTGAA AGGCAATCAA GCGAGATTAA TCTTTTCAGG  | 873540 |

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|-------------|-------------|------------|------------|------------|------------|--------|
| AAAAATTCTC  | AAGAAGTTGC  | AAAGATTGAA | TATATTTCAA | AACCTGCTTA | CAATACTCTT | 873600 |
| AATGTTAGTG  | CAAAGTCTCT  | TTTTTCAGAT | TTGATAGTTT | ATAACTTTTG | GATCAAAATT | 873660 |
| GTAGATAAAG  | AAAACATTGA  | AATCAAAATT | GACACTAGCA | CAAATTCCTA | TGATAATAGT | 873720 |
| GGATTTTCGG  | GTACATTTAA  | GAGGTTTGAT | GAGAATGTCT | TAAATGTTAA | AAAAGGGAGT | 873780 |
| AGTGATATTT  | ATTTTATTCC  | TAGTGGAAT  | TACGTGTATA | AGGATAAAAT | TTATGATTTT | 873840 |
| TCTTACCCCC  | ATTTAACTTA  | TATTGATGAG | AATAAAATTT | ATTATGGCAT | TTTTAATATT | 873900 |
| TTTCCTTTAA  | AAAATAATTT  | TGTTCTTGAA | TATGAGATTG | ACATGGGTAG | TTACAAGCTT | 873960 |
| GTTGAATCTT  | TTTTCCTTGA  | GCATAGCGAA | AGAATTGTTC | AAAAGCAAAA | ATTTTCTACA | 874020 |
| ATCATTTTAA  | ATCCTATTAA  | AATTTTAAAA | GATGATGTAA | GCTTAGTTAA | AGGGCAAAAA | 874080 |
| TTAAAGCTTG  | AGCGAATAGA  | AAAAATATGA | TAATAGTTTT | TATGAAAATA | TTGAGAAGTA | 874140 |
| TTATAACTTA  | TTTAAATGTT  | TTATTGTTTT | TTTTGATTTT | AATTTTTTTT | TTATTTCTTT | 874200 |
| TTTACCTGGT  | TTGTAAAATT  | TTTTTAATTG | AACGTTATGT | TGTTAGGCTT | AGTTTCATTA | 874260 |
| TGATGCGAGC  | TTGCATTAAA  | ATTAGCTTAT | GGCTTGCTGG | AATTAAAATT | ATTGTTACGG | 874320 |
| GTTCTGAAAA  | TATTCCTAAA  | AAAAGCAATG | TAATAATAAT | GGGAAATCAT | ATTGCGGCTA | 874380 |
| TGGATCCTTT  | AATTTTTTATT | TATACTTTTG | CCTGCCCAT  | TGTAATATTG | GCAAAACATT | 874440 |
| CGTTGCTTAG  | GATTCCTTTT  | GTGAATATTG | TTTTGATTGT | TATGGGTGTT | ATTTTTGTTA | 874500 |
| ATAGAAGGAG  | CATAAGATCT  | GCTGCTGCTG | CTGAGGTAA  | GGCAATAAAG | GTTATGAGAG | 874560 |
| AAGGTAGATC  | TATTGGAATT  | TTCCCCGAAG | GAAGTAGAAA | TAGAGGGGGG | GATACTAGAG | 874620 |
| TTTTTAAAAA  | AGGTTCAATT  | AAGATGGCAT | TAAAAACAGG | AACATCAATT | CTCCTGTTA  | 874680 |
| CTCTTTATAA  | TACTAATAAC  | TTTTTTATTA | AAAATATTAT | TTTTAATTCT | GGACTGTCTG | 874740 |
| TTTATATTCA  | TGTCCATCCT  | TTGATAGATG | TTTTAAAATT | AAGTGAGTAT | GAAAAAGAGA | 874800 |
| ATCTCACTAG  | TATTATTAGA  | GATCAAATAG | TTAAAAAGCT | TGAAACTATT | AAAATTTAAT | 874860 |
| TTATAAAGCA  | AGGATTTAGA  | TGAAGACTCA | AAATTATGAT | GAAAGTAAAA | TAATCACTCT | 874920 |
| ATCTTCTCTT  | GAACATATTA  | GATTAAGATC | TGGTATGTAT | ATTGGACGTT | TGGGAGATGG | 874980 |
| CTCTAATATT  | GATGATGGTA  | TTTATGTTTT | AATTAAAGAG | ATAATAGACA | ATTCAATTGA | 875040 |
| TGAGTTTATT  | ATGGGTACG   | GAAATGAAAT | TTTTATAAAA | AAAGAAAATA | ATCTTATTTT | 875100 |
| TATTAGGGAT  | TATGGAAGAG  | GAATTCCTCT | TGAAAAGTT  | ATTGAGAGTG | TTTCAGTTAT | 875160 |
| TAATACTGGA  | GCCAAGTACA  | ATGACGATGT | TTTTCAATTT | TCTGTAGGGC | TTAATGGGGT | 875220 |
| TGGAACATAAG | GCAGTTAATG  | CCTTAAGTTC | AAAATTTTTT | GTAAGATCAA | CAAGAAATGG | 875280 |
| CAAATCTTTT  | GAGGCTTTGT  | TTTCTAAGGG | AAAATTATTG | GAATCTAGAG | AAATAAAATC | 875340 |

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|------------|------------|------------|------------|-------------|------------|--------|
| TTCTGATAAA | GATGGTACTT | ATGTTGAGTT | TTTAGCAGAT | TCAGAAATAT  | TCGGAAAATA | 875400 |
| TTCTTATAGT | GAAGATTTTC | TCAAAAGAAG | ATTTTTCCAT | TATGCTTGTT  | TGAATAAGGG | 875460 |
| ACTTATAATA | AACTATAATG | ATCAAATTTT | TGAATCTAAA | AATGGTCTTT  | TAGATTTTTT | 875520 |
| GAATTCAGAA | ATTAAAAGTG | ATGATTGCT  | TTATGATATT | GTTTACTATT  | CTAGTAAAC  | 875580 |
| TTTAGAATTT | GCTTTTTCCC | ATACAAATAA | TTATGGGGAG | ACTTATTTTT  | CATTTGTTAA | 875640 |
| TGGTCAATAT | ACTAATGATG | GAGGTACCCA | TCAGACTGGT | TTTAGAGAGG  | GCTTTGTAAG | 875700 |
| AGCTATTAAC | GATTTTCTTA | AAAAAACATA | TTCTCTACG  | GATATTAGGG  | AAGGGCTTGT | 875760 |
| TGCAACTCTT | TCTGTAAAAA | TTAAAGATCC | AATATTTGAA | AGTCAAACATA | AGAATAAGCT | 875820 |
| TGGAAATATT | GAAACTAGAG | GCAATGTTGC | AAAGGAAGTG | CAGAAGATAA  | TTTCTGAAAT | 875880 |
| TTTATATAAA | GATAAAATAC | TTGCAAAATT | GATTGAGAAA | AAAGTAGTTG  | ACAATGAACG | 875940 |
| ACTCAGAAAA | GAATTAAGTA | GCGTAAGAAA | AGAAGCAAGA | GAGAGAGCAA  | AAAAAATATC | 876000 |
| TTTTAAATC  | CCTAAGCTTA | AGGATTGCAA | ATTTCATTTT | AATGACAGCA  | GCAAGCAGTC | 876060 |
| AGAACAACT  | ATGATCTTCT | TAACAGAGGG | GGATTCTGCA | ACAGGTTCAA  | TGGTATCTTG | 876120 |
| TAGAGATGTT | TATACTCAGG | CTATATTTTC | TCTTAGAGGA | AAACCTCAAA  | ATATGTTTGA | 876180 |
| AAAGAATAAA | TCTGAAATAT | ACAAAAATGA | AGAACTTTAT | AATATGATGG  | TAGCTCTTGG | 876240 |
| CATTGAAGAA | TCAATTGAAA | ATTTAAGGTA | CAATAAGGTT | GTAATAGCAA  | CCGATGCAGA | 876300 |
| TTTTGATGGA | TTTCATATTA | GAAATTTATT | GTTAACTTTT | TTCTTAACTT  | TTTTTGAGGA | 876360 |
| TTTAATTTTA | AATGGGCATA | TGTATATTTT | AGAACTCCT  | CTTTTLAGGG  | TTAGGAACAA | 876420 |
| AAAAATCACG | ACCTATTGTT | ATTCTGAGGA | AGAAAAGCAA | AAAGCCATTC  | TTGAGCTTAA | 876480 |
| GGGGGGATGT | GAAGTAACAA | GGTTTAAAGG | CCTTGGTGAA | ATTTCTCCAA  | ATGAATTTAA | 876540 |
| AGGCTTTATT | GATATTAATA | GCATTAAGCT | TACAAAGGTG | GACCTTTTTA  | ATATTAAAGA | 876600 |
| AATAAAAGAG | AAATTGGGTT | TTTATATGGG | GCAAAATACT | CCTGAGAGGC  | GGAATTTTAT | 876660 |
| TATGGAGAAT | TTGATTTAAT | GGATATTAGA | ACTGTACTTA | AAGATAATTT  | TTTGCAATAT | 876720 |
| TCATCTTATG | TTATTAAAGA | TCGTGCTATT | GCTAGTGTTG | TTGATGGGTT  | TAAACCAGTT | 876780 |
| CAAAGGAGAA | TTATACATTC | TCTTTTTGAA | ATGCATGATG | GCAACTTTCA  | TAAAGTTGCA | 876840 |
| AATGTTGTTG | GTAATACAAT | GAAATATCAT | CCCCACGGCG | ATACGTCAAT  | TTATGAGGCT | 876900 |
| CTTGTTAATA | TTGCCAATAA | GGATCTATTT | ATTGAAAAGC | AGGGCAATTT  | TGGCAATTTA | 876960 |
| TTCACAGGTG | ATCCTGCTTC | TGCTTCTAGA | TATATTGAAT | GTAGGCTAAC  | TCCCTTAGCC | 877020 |
| TTTGATGTTT | TTTACAGCAA | AGAGATAACA | ATTTATGAAT | CTTCTTATGA  | TGGAAGAAAT | 877080 |

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|------------|------------|-------------|-------------|------------|-------------|--------|
| AATGAACCTT | TGCTTTATCC | TGCCAAAATT  | CCTGTTATTT  | TAATTCAAGG | AAGTGAGGGA  | 877140 |
| ATTGCTGTTG | GAATGGCAGC | TAAAATATTG  | CCTCACAATT  | TTAATGAGAT | TTTAAATGCA  | 877200 |
| GTAAAGAGCG | AGCTTCTTGG | AGAGAGTTAT  | GATATTTATC  | CTGATTTTCC | AACGGGAGGA  | 877260 |
| ATAGTTGATG | TTAACGAATA | CGCTGATGGT  | AACGGTAAAG  | TTTtagTTAG | AGCTAAGATT  | 877320 |
| GAAACCATAG | ATGAAAAAAC | AATTGTAATA  | AGGGAATTAC  | CCTTTGGTGA | GACTACTGAG  | 877380 |
| AGCTTAATAT | CTTCGATTGA | GAAAGCAATT  | AGAAAAAATT  | ATATTAAAGT | TTCAAGCATT  | 877440 |
| AATGACTTTA | CTGCTGAAAA | TGTGGCCATA  | GAGCTATCTT  | TGCCTAGGGG | TGTTTATGCA  | 877500 |
| AGCGAAGTGA | TTGAAAAGTT | GTATCATTAT  | ACAAATTGTC  | AGATATCAAT | TTCTGTTAAT  | 877560 |
| TTATTATTGC | TTAGCGAGAG | ATATCCTGTT  | GTTTATACTA  | TTAAAGATCT | TATCAAGTTT  | 877620 |
| CATGCAGCCC | ATCTTCAAAA | AATTTTAAAA  | ATGGAACCTG  | AATTACAAAA | AAGCAAGATT  | 877680 |
| CTTGAAAAAA | TATTTTATAA | AACACTCGAG  | CAAATTTTTA  | TTGAAAAAAA | GATTTATAAA  | 877740 |
| CTTCTTGAAA | CAATTTCTAA | AGAAGAAAAT  | ATTCTAAGTA  | TAATATTGTC | AGAGGTTTTA  | 877800 |
| AGGCACAAAG | AATCTTTTTT | AAGGGAAGTT  | TTAAAAGAAG  | ATGTTGAAAA | TTTGCTTAAA  | 877860 |
| ATTCCAATTA | GAAAAATAAG | TCTTTTTTGAT | ATTGATAAGA  | ATTCTAAGGA | TATTAATAAT  | 877920 |
| TTAAATAAAG | AATTAAAGAG | TATAAATAGC  | AATATTTCTT  | CAATAAGAGG | TTATTCAATA  | 877980 |
| AATTTTATTG | ATTTATTGCT | TGCAAAGTAT  | TCTAAAGAGC  | ATCAAAGAAA | GACTAAAATT  | 878040 |
| TCTTTAATCA | AATCAAAGAA | TGTAAAAGAA  | ATAGCTACAA  | AGAATATGAA | AGTTTATTTG  | 878100 |
| AACTTGGCAG | AAGGCTTTGC | AGGAACAAGT  | CTTTTTTGATG | GTGAATTTAT | TGGAATGCT   | 878160 |
| AGTTATTATG | ATAAAATATT | AGTTTTTAGA  | GAAAATAGTT  | ATGTTCTTAA | AAATATTGAA  | 878220 |
| GACAAGACAT | TTATAGATAA | AAAGAATGTA  | TGTGCTTTAG  | TTTATGATAT | AAATAATTCA  | 878280 |
| AAAGAGCAAA | TATTTTCAAT | AATTTATTTT  | AACAGGCTTG  | ACAATTTTTA | TTATGTTAAA  | 878340 |
| AGGTTTAAAA | TAGATAAATT | TATTACAGAT  | AAGGTTTATG  | AATTCTTGGG | AGAAAAATGAT | 878400 |
| GAATTTGTGC | ATTTTTCATT | GAATCCAGAA  | TTTGTAGAAT  | TTTCTACAAA | TAAAGACATT  | 878460 |
| GTAAAAGAA  | TTGAAATTGA | TAATTTTATG  | GTCAAATCAA  | GAAGCTCTAT | TGGGAAGCGA  | 878520 |
| ATTTCAAGCA | ATAATTGAA  | AAAAGTTAAA  | TTTAAATAAC  | TTTAAAAACC | TTTTTTAAAT  | 878580 |
| TTCATTAATA | TGCTACCATA | GTACCAGTTT  | TAATAAAGGG  | GTTTTTATGA | ATAAACTTTT  | 878640 |
| AATTTTGTG  | TTGGCAACCT | TTTGTGTTTT  | TTCTAGCTTT  | GCTCAAGCTA | ATGATTCTAA  | 878700 |
| AAATGGTGCG | TTTGGGATGA | GTGCTGGAGA  | AAAACTTTTG  | GTTTATGAAA | CTAGCAAGCA  | 878760 |
| AGATCCTATT | GTACCATTTT | TATTGAACCT  | TTTTTTAGGG  | TTTGGAATAG | GCTCCTTTGC  | 878820 |
| TCAAGGAGAT | ATTCTTGAG  | GTTCTCTTAT  | TCTTGGATTT  | GATGCGGTTG | GTATAGGGCT  | 878880 |

TATACTTGCG GGGGCTTATT TGGATATCAA AGCGCTTGAT GGTATTACTA AAAAAGCTGC 878940  
TTTTCAATGG ACTTGGGGTA AGGGAGTTAT GTTAGCAGGT GTGGTTACTA TGGCTGTGAC 879000  
AAGATTAACA GAAATTATTC TTCCATTTAC ATTTGCTAAT AGTTATAATA GGAAGCTAAA 879060  
AAATAGCCTT AATGTAGCTT TAGGAGGATT TGAACCTAGT TTTGATGTTG CAATGGGCCA 879120  
ATCCAGTGCT CTTGGGTTTG AACTGTCTTT CAAAAAAGC TATTAATTTT ATTTATTACA 879180  
AAAATGGGTG ATTGCAATTC TGTATTGCAA TTGCTCAATT GTAATTAAAA GAGCTTTTAC 879240  
TTGTATTTTA TTTCTCTACT AAGATCTTTT TTTATGCTTT TTTGCTTTAA TATTTCTCTT 879300  
TTATCATACA ACTTTTTTCC TTTACATATT CCAACTTCTA CTTTAATTAT TGATTTTTTT 879360  
AAATAAAAAC TAATAGGAAT TAAAGTATAT CCCTCTTTTT CTTTAAATTT TTTTAGTCTT 879420  
TGCAATTCTC TTTTTTTGAT TAAAAGTTTT CTGGGCCTTA ATTCATCATG ATTGAAGATA 879480  
TTACCTTCTT TATATTTTGA TACGTGCAAG TTTTCAAGCC ACAATTCTTC TTTTTTTATG 879540  
CTTGCAAAGC TATTGTTAAA TGATAATTTT TTTGCCTTTA TTGATTTTAC CTCAGTTCCT 879600  
TTTAGCACTA TTCCACAAC TATTTTCTCT TCAATAAAGT AATTAAATTT TGCTTTTTTG 879660  
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TTGAATTTTC GCTATAAAAA TTTTTTTCAT TTTTAAATAT TGCGATTTCA TTAAAAGATG 879900  
AATTTTGCAT TAAATTCCAA AATCCAACCT TTTTGTATAT TTCATTAATA TTTAATGGGT 879960  
TTTTGTTTGG TTCTTTTTTG TACAATTCCC ATTCTTGTTA TATAGGCAGT CTTGCTTTGA 880020  
ACCCTGTGGG AAGTTTTTTA GAGTACCAGT TGGCGTATTC TATTGCTGAG AAATAAGATA 880080  
TTCCAGTGAT GGCTTCATTT AAGCCTATTT GATTAAATT TTTAAGATAA TTTTCATCTA 880140  
CAAGTTGTTT TTTAATTAAA TTTTCTTTAT TATTTAATGC CCATTTTGGA TTTTCTTTTA 880200  
AAAAATCTTG ATACTCGTAT TTTGTAACAT TTTGTTCTTG AATAAGAAAT TCTTTTACGT 880260  
TATAGGTAGA TTTTAGTGAA ATGTTTTTTG AATCTAATGA ATTTAATTCA TAATTTTGAA 880320  
TTTTTTCGAT TTTATTTGAA TTTATTTTTT TAAATCCAGG TAATTTTATA TTGATTTTTT 880380  
CATTTTTAGA AATTAATTGA ATATTTTCAT TGTCTAGAGT TTTGGCTAAT GTTTTAACCC 880440  
AAGGCGCATT TTTTGTTAGT ATTTTTAAAT CTTTATCTAA ATTTTCTAAA AACCAAAAGA 880500  
TGGCTCTATT TTCTAAATCA AAATTTGTTT TTAAAGAGTT CCATATTTCT TCTTGATTGC 880560  
TGTTGTCTTG GTCTATTGAA TATATAGCTT TATATGAATT TAGAAAATCT TTAAACATTT 880620

|            |             |            |             |             |            |        |
|------------|-------------|------------|-------------|-------------|------------|--------|
| CGGTTGAATT | TAAGTAAGGT  | ATAGAATCTT | TTAGAAATTT  | TTTAATGTAT  | TTGGGATGTT | 880680 |
| CTTTAAGTTC | GCTAGATATT  | AATGAAAAAA | CAGGAATTAG  | TTTTGTATTT  | TCATTAATAT | 880740 |
| TTTTTATTTT | CACCATTATA  | GAGAGCTCTT | TTTGTCTTTG  | TTTAATGATC  | TTTTCAGGAT | 880800 |
| CAACCAGTTC | TAAATTTATT  | TGCAAACGTG | AGTTTCCAAA  | AAATTTGTTG  | TGAATTTTTA | 880860 |
| TCCTTTGTTC | GTAAGTTTTA  | AATCCCATTC | TCTTTGCTCT  | AAGAACTCCT  | TCGGTGGCAT | 880920 |
| TTATATATTT | GTTAAGTGGG  | GTTCTACCGA | TATATTTTTT  | GTTTAAATAT  | ATGTAAGTGT | 880980 |
| TTTCAATATT | GGAATTTATT  | TTTAAATATG | CTCCTGGATT  | TTTAAATTTA  | GGTATGATTA | 881040 |
| TTAAAGTTGA | TATTAACTT   | AAAAGCAATA | TTATTGTTGT  | AAGAAATACG  | TAAACCTTAG | 881100 |
| GCTCTATTCC | TAGGATTGGC  | TTTAATTTAA | CTTCAAAAAG  | CTCAACATTT  | GAATTCTCGT | 881160 |
| CAACCTCTTT | CATCTTTTAA  | AGTATAGAAA | AGTATTTAAA  | TAAGTGTCAA  | TATTTTGTAT | 881220 |
| TATTTAATTC | TTGAGGTTAG  | GTTATGTATT | TAAGAAGATT  | GGATAAATTT  | GCATCTTTTT | 881280 |
| TGGTACACAT | TGTTGAGAAA  | TATTTGACAT | ATAGAAAAAG  | AAAGAAATAT  | TTTTGCAAAT | 881340 |
| TAAGGGCTAA | GAAACGAGGA  | TTTTTGCTTA | ACTTTTTTATT | TGATTTTGTA  | GCAGCGGCAA | 881400 |
| TTTTTGTATT | GGTGATAAAT  | CAATATTTTG | TTCAAGCTTA  | TAAAAATACCA | TCAGGATCAA | 881460 |
| TGGAAAATAC | TCTTCAAATA  | GGGGATTTTT | TATTTGTAGA  | TAAATTTTCT  | TACGGTCCTG | 881520 |
| AGCTTTTACC | AGGGTTATTT  | AAAATTAATG | GTTTTAAAGC  | CCCAGAAGAA  | TCCGATATTA | 881580 |
| TTATTTTTGA | AAATCCAGAG  | TATAAATCAA | AGGGTGTTTT  | TTTTGATATC  | TTTCAAAGAA | 881640 |
| TACTTTACAT | GTTAACATTA  | TCTTTTATTG | ATCTTGATAG  | AGATGAATAT  | GGCAATCCCA | 881700 |
| ATGTTAGATT | TCTTGTGAAA  | AGAGGTGCGT | TTGCAGATGG  | TAAAATTGTT  | AGATTTAATA | 881760 |
| ACGGTAAAGC | TTATATTAAA  | AGAGAAGGCG | AGGAAAATTT  | TATTTTAGAA  | GATTCTTATT | 881820 |
| GGGATTTGGT | TGATAAAAAAT | TTTAAATTA  | AAAAAATTGT  | GGCAAATGAG  | GACTATGGGA | 881880 |
| TTTATGGTGA | TTTTGCTATG  | TTTGTTGCTC | TTAGCCAGTT  | AAATATAAAT  | TTAAGTAGCA | 881940 |
| CTCCCGATTT | TTCATTTTTT  | GATGTTAGAA | TGATTGATAG  | GTTTGAGTTT  | GAAAGATTGG | 882000 |
| AATATAAGTA | TTTATCTGCT  | TTTATGCCTT | ATGTGGATTA  | TTATATGGAA  | AAAGCTATAA | 882060 |
| TGAGAGATTA | TGGTATTTAT  | GTTCTGATG  | GATATATTTT  | GCCAATTGGA  | GATAATAGAG | 882120 |
| ACAATTCTCA | TGATGGTCGG  | TTTTTTGGAG | TAATCAATAA  | GAATAAAGTA  | CTTGAAGAA  | 882180 |
| CCTTGATAAT | ATATCTTCCA  | TTTCTAGAG  | TAGGATTTAT  | TTAAAGTGGC  | CCCATATTTA | 882240 |
| ACTTTCGAAC | AAAGGCTTTT  | AAGGAAAAGA | CAAAGAAAAG  | TTTTTTTTTAA | ATATTTTTTA | 882300 |
| ACATTTTTAA | TTTTAAATTT  | TTTTTTCACA | AAGTTTGTTT  | TGCAAATTTT  | TATGATTAAA | 882360 |
| AGTAATGAGA | TGTTACCAAC  | AATAACAAAA | AATGCCAGTT  | TATTTTTTGT  | AGCAACACAC | 882420 |



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|------------|------------|------------|------------|------------|------------|--------|
| ATAACTTCTT | TTTTTATTCC | TTTGAAAATG | AATGATATTG | TTCTTTATGA | GGATTTTAGG | 882480 |
| TTAAGTAATA | ATTTTTTGTT | AACTTTAATA | AAAGATTCTT | TTTTTTTAAA | TAAAATTTTT | 882540 |
| AAAAGAGCAA | GCTATAAAGT | ATCAAGAATA | GCAGCTGTTC | AGGGCGATTC | TGTTTATGTT | 882600 |
| AGAGGTTTGA | ATGTCCTGGT | AAATAAAAAG | GATACAAATT | TTTTTTATTT | GAATGGCAAT | 882660 |
| TTGGTTAGCT | ATTACAAGTT | GAATGATTTT | TTTAATACAG | ACGAAGTGAT | TAAATGTTTT | 882720 |
| ACTTTGAAAA | AAAATGAATT | TTTTTTATTA | AATGACAATT | TAAGCGTTTT | AAATGATTCT | 882780 |
| AGAATATTTG | GACCCATTAA | TAAAAATGCT | ATTGTTTCTT | TTTTGGTTCT | TAAGGTAGTG | 882840 |
| GACTATAAGA | TTGTTAAGTA | AAATTTTTGT | TGATGCTGAT | TCTTGTAATT | TTAAGATAAT | 882900 |
| AAAATTTTTA | CAAAAATTTA | TATTGCACAA | TAAATCAAAA | CTCATTGTAG | TTTCTAATAA | 882960 |
| GTTTTTCAGT | CTGGAAATAA | CAGAAAATGT | TGCTTTGGAA | GTGGTAGACA | ATGTTGATTC | 883020 |
| ATTTATTTTG | AATTTAGCAG | ATAGATATAG | CCTTGTGATT | ACTCGAGATA | TTTTTTTTGC | 883080 |
| CAAGCTTCTT | TTAGATCTTG | GGGTTAAGGT | TATGAATGAT | GAAGGTCGAA | TTTTTGATAT | 883140 |
| AAATAATATA | AATTATTTAT | ATTTTAGATC | TAAGATTAAT | TTCAATTTGA | AAATTAAGAT | 883200 |
| TAAAAAATAT | TATGATGAAG | ATTTTAATAA | ATCTAGATAT | GAAAAATTTA | TAACGAATTT | 883260 |
| TTATTCTTTA | TTCTTTAGTT | AATTTTCTGT | TTCCAATTT  | CCACAAACCC | TTGCCCTGAG | 883320 |
| TTAATATGTA | AATCGTGTTG | TTTGATACAG | GAATAATATC | ATTAAGGCCT | GTTTTGCTTA | 883380 |
| GCTGAGATCC | GTTATAAGCT | CCAGGTTCTA | CAGATTTTGA | GGGTGCCCCG | AGGGCAAAAA | 883440 |
| TTCCTTCTTT | ATTTTTTGTA | AATTCTGCAA | ATCCATTATT | ACTTCCGATT | AATATCGCAT | 883500 |
| CATTAAATTC | TCTTGCAAAG | TAGCTGCTAA | ATTCGCCTAC | TTCGTCTTGA | ATAAATATTG | 883560 |
| GCGTTGTGTA | ATTATTTGTA | TTTGAGTAAA | CTTTAAATTT | TGTATCTAAA | TTATTGTAAC | 883620 |
| CACCAGTCAT | TACTAAAACT | TCAGAAGAGC | CCCTAATGCT | TGTTTTAATG | ATAGGCATTA | 883680 |
| TTTCTTTGGC | CTGTTGATAG | TCTATGTTTG | TGTATGTATT | GTTATTCATT | TGCCATATTT | 883740 |
| TGAGTGAATT | TCCTGTAATT | AAGTTTCTT  | CATTTGATAT | TTGATAAAAT | TTGTCATTTT | 883800 |
| CAGTAGCTTG | TGGTGGTGTT | TTGTCAGATC | CTTGTAGATC | AAAAATTTTC | TCACGATTAT | 883860 |
| TTTTATCTAT | AGCTAAAATA | TATGCTTCTT | TTACGCCATC | TCTTCCTACG | GATTTTAAGA | 883920 |
| ATTTATATGC | TTTTAGCGGT | TTTTTAAATT | TTAATGTCCA | ATCTTTTCCA | TTTAGCTCGC | 883980 |
| AAACTTCTAA | TTCTTCTTCT | TTGTTTTGCG | CTAAAAGATA | GGTTTTTCCA | GATATATTTA | 884040 |
| CAATGTCGTT | TATAAACTCA | TAAGAATTGC | TCAAATCAAT | TTTTTCAATC | TTGCCGTTTT | 884100 |
| CTTTTTTAAA | TAAATGCATG | GCTGCAATGT | AGAGAGTTTC | TCCTACTAGA | GAAATTCCTC | 884160 |

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|-------------|-------------|------------|------------|-------------|------------|--------|
| TTGGACTTGA  | ACTGCCCAAA  | ATATTGTATT | CATGTTTTAT | TTTTTGCAGA  | TTTCCTAATT | 884220 |
| GTGAAAATAT  | GGATTTCGCTT | GAGCATGCTA | GTAGTAAAAA | TATTAATAGG  | TTTAAAATTA | 884280 |
| ATCTTTTTTTT | AAAATAGTTT  | TCGTATTTTT | GTTTCATTTT | TATCCTACAA  | TTTATTTACA | 884340 |
| TTCACTGTAA  | CTGATAATGA  | TACAAGTGCA | AAATGTGCCA | TTTTCAGCAGA | ATTTCCAAAT | 884400 |
| TCAAACATCA  | TCCACCAAGA  | TGCTGTTGCT | CCAAAAGCCC | ATTTATAGTT  | AAAGTTCCAT | 884460 |
| AAAATTCCAG  | ATCCAAAAGA  | GATTGTAGGG | AGTGCATCAA | AAGTTCCTAA  | ATTTGTAATA | 884520 |
| TTGTTGTTTC  | TATCTCCATA  | TGTATTAAGA | GAAAACCCTA | TATTTGTGAA  | GACTGGAATT | 884580 |
| TGAAATAATT  | CTCCTATATC  | AAATATATAA | TTTATTGAAA | ATGTAATAGG  | CACGCTATAA | 884640 |
| AAAATTTTAC  | CTACACTTGA  | ATCTGGATTT | AATATATTAA | AAGAATGGTT  | AATATCAAAG | 884700 |
| TTAAACATAT  | ACCTTAGTTC  | AAGTCCAATT | GCTAAATTGT | TTAAAATATG  | GTACTGGTAT | 884760 |
| TTTATTGCCC  | CAATACCTCC  | TGGATATAAA | TTGGTAGGAT | AAGCTTTTGA  | TAAGTCGTTG | 884820 |
| TAAAAAATAG  | GGATTCCCTAC | ACTTAAATCT | ATTCCTAAAG | TGGAGTTTGT  | ATGCCTATCA | 884880 |
| ATATTGGCTG  | CGGCCGCAAT  | TTTTTTTATG | TTTACACCAA | TTAGCAAGAC  | TGCAATTAGT | 884940 |
| ATTATAAAAA  | TATACTTTCT  | CATTATTCTC | CATTCTTTTA | AAATTATTAT  | CCTTGTTTAT | 885000 |
| TATAGTTTAA  | AATAAATTTA  | ATTACAATTT | GAAATTTGGT | CGTTTGACTT  | TCCTTATATT | 885060 |
| GACAATCTAA  | GTATAATATT  | AAGGTAATCT | TATTGGGGTT | TAAGGGGTAT  | ATTTTGAGTA | 885120 |
| TTGTGTTTAA  | TGGGAAAGAT  | TTTGCGAATA | AGTATTATTT | AATGCTCAAA  | GAATTCTTAA | 885180 |
| AACAGCATAA  | CTTGAGAGAT  | AAAATTGCAT | TAAAAGTTGT | TTTAGCAAAT  | GATGAGCCTG | 885240 |
| CAAGCAATCT  | TTATGTTTCA  | ATTAAGAGTC | GAGTTGCAAA | AGAGATTGGC  | TTGAATGTTG | 885300 |
| AAGTAATTAA  | ATTTTCTGCA  | AACTCTGTTC | AAAGCGATAT | TTTAGAAGTA  | ATTGATAGAG | 885360 |
| AAAATAAAAA  | TTTAAGTACA  | GATGGAATTA | TTGTGCAATT | ACCCCTTTTG  | AAAGGTATGG | 885420 |
| ATTTAAATTC  | TATTTTAAAT  | AGCATAGTTT | ATTCAAAAGA | TGTTGATGGC  | TTATCTTTTG | 885480 |
| TTAATTTGGG  | AAAAATGATT  | TTGGGCGATA | AAAAAGGGTT | TATTCCTTGT  | ACAGCTCTTG | 885540 |
| CTGTATTAAA  | GATCTTGCGA  | GATGAAGGGA | TAAAAACATT | GGGAAAAACG  | GTTGTTGTGG | 885600 |
| TTGGTAGAAG  | TCCTCTTGTA  | GGAAGGCCTA | TTTCAATATT | GCTTTCATCA  | AAACCTTACG | 885660 |
| ATGCAACTGT  | TATTGTTTGT  | CACAGCAAGA | GCATTTATTT | AGATGTTTAT  | TTAAGACAGG | 885720 |
| CAGATATTGT  | TATTTCTGCT  | GTTGGTAAGC | CTAGATTAAT | AGATAAAAGC  | ATGTTGTGCG | 885780 |
| GAAAGCCCTTA | TGTGATTGAT  | ATTGGCATTT | CTGAAATTGA | GACTGACAAC  | GGGAAAATTC | 885840 |
| TCTCAGGCGA  | TACAGATTTT  | GACAATATTA | AAGAGTGCGT | TAAATTTATT  | ACTCCTGTTA | 885900 |
| AGGGGGGGAT  | AGGTCCTGTT  | ACGGTTCTTA | TGTTAATGTT | TAATACAATT  | AAAGCTCATT | 885960 |

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|------------|------------|------------|------------|-------------|------------|--------|
| TGATTAATAA | TAGGATGTTT | GACGTTTTAA | ATCGGTGGA  | AAAATTGTTG  | GAGGTGTAAA | 886020 |
| TGTCTGGTCA | CAGTAAATGG | TCAACAATAA | AGAGAAAAAA | AGGTGCTCTT  | GATGCAAAGC | 886080 |
| GTAATAAAAT | TTTTACAAAG | CTAATAAGAG | AAATAACTAT | TGCAGCTAAA  | ATAGGGGGTG | 886140 |
| GGGATATTGA | ATCTAATCCG | AGACTAAGGG | TAGCTGTAA  | TAAGGCTAAG  | GTTGCCAATA | 886200 |
| TGCCAAAAGA | TAATATTGAG | AAGGCAATAA | AAAAGGGTAT | TGGTGGTAAT  | GAAGGGGTTG | 886260 |
| AATATTTTGA | AATAACTTAT | GAGGCTTATG | CTCCTTATGG | AGTGGCTCTA  | ATGATTAAAT | 886320 |
| GCTTAACGGA | TAATAAAAC  | AGAACCTCTA | GCGATGTGAA | AAGTGTTCTT  | GCAAAAGGTG | 886380 |
| GAGGATCTCT | TGGTACCCCA | GGTTCAGTCT | CATATATGTT | TTACAGAAAG  | GGTCTTATTG | 886440 |
| TTTACAATTT | AGAAAAATAT | CTTGAAGATG | AAATAATGGA | ATTTGCATTA  | GAAGTTGGTG | 886500 |
| CTGAAGATAT | TTTAGTTTCA | AACAATGAGG | CAGAGGTTAT | AACAAGTCCT  | GATGATTTTG | 886560 |
| ACAAAGTTTT | ATCTTTTTTG | AAAACCAAAT | TTAAAGAAGA | GGTGGCAGAG  | ATAGCTTTAA | 886620 |
| TTCCTGAAAA | TAAAATTTCT | TTAAACAAAG | ATCAAGCAGA | AAAAATAATT  | CTTCTTGTTG | 886680 |
| AAAAGCTTGA | AGATTTTGAT | GATGTTCAGG | AAGTAATTCA | TAATTTGGAG  | ATCCCAGAAG | 886740 |
| AATTAAGTTA | GTTTTATTTA | AATCTTTTCG | TAGTAAACTC | TGTATATTTT  | ATTTCCAAAG | 886800 |
| TCATCTGTAA | AAAGAATTGA | ACCGTCATAA | TATGTGATTA | TATCAACAGG  | GCGTCCAAAT | 886860 |
| TTAGATTTGT | CGTGCTTTAA | AAATCCATAT | AAAAAAGTCT | TGTAATTTCT  | TGCTGTTCTG | 886920 |
| GTTTTAGAAT | CAATGTCTAG | TGTTGTTATT | TTGTAGCCAA | CAGGAGAAGA  | TCTGTTCCAC | 886980 |
| GAGCCGTGTT | CTGCTATGAA | TAATTTATTT | ATGTATTCTT | TTGGAAAGTT  | ATTTCCCCGG | 887040 |
| TAAAAGTGTA | TTCCAAGTGG | AGCTACATGT | GCGGGAAGTT | CGTAAATAGA  | TGGGATAAAC | 887100 |
| TTAGTGTTTT | TGGGTGCTTT | GTTATAAAAA | CCGTAATTTT | TTTGATTTTT  | TCCAAACACA | 887160 |
| TAGGGAAATC | CAAAATGTTC | TTTATATTCG | GTTATTACGT | TTATTTTCATC | TGGGGGAATG | 887220 |
| TTGTCTCCTA | ATCCGTCTTG | GCCATTGTCT | CTAAAATATA | TTTCATTGCT  | AATTGGGTGA | 887280 |
| AAATCAAACC | CAACTGAGTT | TCTCACTCCA | AAAGCTACTA | TTTCTTCTTT  | TTTTGTTTTT | 887340 |
| AAATTAATAC | TAAGGATTAC | TGCTTCTTTT | TTTGGGGGAA | TTTTAACATT  | GTGCTGGGAT | 887400 |
| CCTATATTTA | CTATTAATTT | GTTATTTTFA | GAATCTACTT | TAATGTAACG  | TCCTGAGTGC | 887460 |
| ATTTGAGAAT | TATTTTTTGG | CAAAAGTGCA | AAAATTTGCA | TTTTCCATGT  | ATAGTCTTTA | 887520 |
| TGTGATTTTA | TGCTTTTATT | AATTTCTTCT | TTTACATTTT | TAACTACATA  | TATTTTATCG | 887580 |
| ACAGAAGATA | TGTAGAGTTT | ATTATCCCAA | TAATCAATAC | CAATAGGTTT  | TTGCAGGGTT | 887640 |
| TTTGCTATGG | TATAAATTTT | TCTGTTTTTT | GTTACAAAGT | ATGCAAAAGT  | GCTTCCAGAT | 887700 |

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| CCTATGAATA | TATTTCCATC | TTGATCGCTT | GTGATTCCTC | TAGGTTTTTC | AATTGTATTG | 887760 |
| TTTAAAAAAA | TTTCGACTTT | AAATCCATTA | GGAACTTTTA | GTGTGCTTGT | TATTTCTTCT | 887820 |
| GCTGCAATAG | TTATAGATGA | GATTAAGAAA | ATAGTTGTAA | TTAATTGAAA | ATAGCTATTT | 887880 |
| AAAAATTGAT | TTTTCATTTA | GTGTCCTTTT | TTTACTTAAG | GCTTTTGCTT | TAAATTGTTG | 887940 |
| AATGTTTCTG | TGTAATATAA | TTTATAATTT | AATTATATGA | TAAATAAGAT | TCATGGTAAA | 888000 |
| GTTATAGAAA | AAAAAGAATC | TAGTTTAGTT | TTAATGACTA | CTGTTTTTGA | ATTTGAACTT | 888060 |
| TTAGTTAGTG | CATTTTGCCT | TGCTAATTTT | AATTTGTCAG | ACAAAGTTGA | GTTATTTACT | 888120 |
| TATCTTTATA | CTAGAGAAAA | TGAATTAAAA | CTTTTTGGAT | TTTTGAATTC | AGATGAAAGA | 888180 |
| GAGATCTTTA | AGGAGCTTAT | TGGAGTAAGC | GGAGTAGGCC | CAAGGGCCGC | TTTAAGAGTG | 888240 |
| TTATCCAATA | TAAGGTATAA | TGAGTTTAAG | GAGGCTATTG | ACAAAGAGGA | TATTGAACTT | 888300 |
| GTCTCTAAAA | TCAAAGGCAT | TGGCAAAAAA | ATGGCTGGTA | AAATGTTTTT | ACATCTTCAA | 888360 |
| GGTAAGCTTT | TGATTAATAG | CGAGCTTGAA | TCCACTGGTC | TTTTTAGATT | TAAAGAATTA | 888420 |
| GAAGAATCAA | TTGTTAGTAT | GGGATTTGAT | AGAAAAATTG | TTAATAGCAA | GATTAGAGAG | 888480 |
| GCTTTCAATT | TAGCTGAATT | TGCAAAATTA | AAAGATTCTG | AAAAGGAGCA | GTTTTTATTT | 888540 |
| AAGGAGGTTT | TAAAAAGAAT | ATCGAATTAA | TTATTAGTTT | TTTATAGTTA | TAAAATAGTT | 888600 |
| TTTAAGGAAT | ATTTATGAAA | GACGAAAATA | GTATAAGCTT | TTTAAGCTCT | AATGAAAATT | 888660 |
| ATTTATATGA | TAAGAGTGAA | AATGAGCTTA | GGCCTAAAGT | TTTTGAAGAT | TTTAAAGGTC | 888720 |
| AGGTTAATGT | TAAAGAAACC | CTTAGTATTT | TCATAAGAGC | TTCTAAAGAG | AGAGATGAGG | 888780 |
| CTCTAGATCA | TGTGTTTTTA | AGTGGCCAC  | CGGGTCTTGG | GAAAACCACT | CTTGCAAGTA | 888840 |
| TTATTGCCTT | TGAGATGAAT | GCTTCTATTA | AGATTACTTC | AGCTCCGGCT | TTTGACAAAC | 888900 |
| CAAAAGATAT | TATTGGAATT | TTAACAGGTC | TTGATGAGAA | GAGTGTTTTA | TTTATTGATG | 888960 |
| AAATACATAG | GCTCAGACCA | ATAATAGAAG | AAATGCTTTG | CATTGCCATG | GAAGATTATG | 889020 |
| AGCTGGATTG | GGTAATAGGG | CAAGGAGCCA | ATGCAAGAAC | TGTTCGAATG | CCACTTCCAA | 889080 |
| AATTCACATT | GATTGGAGCT | ACTACTAAAC | CAGGAAAAGT | AACATCTCCA | CTTTATGCGA | 889140 |
| GATTTGGAAT | TACTGCAAGA | TTTGAACTTT | ACAGTGAAAT | AGAGCTTGTT | GAGATAATAA | 889200 |
| AGAGAAATTC | TCTTATTTTA | AATATTGAAA | TAGAAGAGGA | TGCTGCTTTT | CTTCTTGCAA | 889260 |
| GAAGCTCAAG | AGGGACTCCT | CGTATAGCAA | ATAGACTTTT | AAGACGAATA | AGAGATATTG | 889320 |
| CTCAGGTAAC | TGGAAGTTTG | GTTATTACAA | GTGATATTGT | TTCAATTGGG | CTTGAAATGC | 889380 |
| TTAGAATTGA | TGGGGAAGGC | CTTGATGAGC | AAGATAGAAA | TATTTTAAGA | AGTTTAATAT | 889440 |
| TGAAATTTAA | TGGAGGACCT | GTAGGTGTTG | ATACTTTAGC | TATTTCTGTA | GGAGAAACAG | 889500 |

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|------------|-------------|------------|------------|------------|------------|--------|
| CAGATTCTCT | TGAAGACTTT  | TATGAGCCTT | ATTTAATTAT | GAAAGGATTT | ATCAGTAGAA | 889560 |
| CTCACAGAGG | TCGTAAAGCT  | ACTGAGTTTG | CATACCTTCA | CTTAAACTTA | GAGATGAAAG | 889620 |
| AGGATGGTCT | TAATGAAAAC  | CAAAGAGTTT | CATTTTAATT | TATCCCATTC | TTTAATAGAG | 889680 |
| CAATATCCAA | GTGAAAAAAG  | AGGATCTTCA | AGGTTAATCG | TGCTAGATCC | TCAATTGCAA | 889740 |
| AAAATTTACC | ATAAAAATTC  | TGTAAACAAT | ATTTTAAAAT | ATATAAATAG | TAATATTTTT | 889800 |
| AATAACTCAA | AAGCTAGAAA  | ATCAAGAATA | TATGCAGAAT | CAGAGATGAG | CAGTAATGTT | 889860 |
| GAATTTTTAA | TTTTGGATAG  | AATTGACACT | AATTTATTCA | CTGCGTTAGT | TTCTAAGTCA | 889920 |
| AAAAAGCAAA | TTATTGGCAA  | TTTTTACAAA | TTCCCCGAAG | GATTAATGGA | TGAAATTTTG | 889980 |
| TCAAAAAATA | GTAGTGAGGT  | TGTTTTAAAA | TTTAACAATA | ATGTTGGTGA | AGATTATTTT | 890040 |
| GAAAAACATT | GTTTTGTGCC  | TTTGCCCTCT | TACATTAAAA | GAGATTATGA | TAAGATAGAT | 890100 |
| GAAGATCGAT | ATCAAACAT   | TTATTCTAAA | TATGTTGGAT | CTACAGCTTC | TGCAACTGCA | 890160 |
| GGGTTACATT | TTAGCAGAGA  | TTTGTTTTCT | GCCTTTGAAA | ATAACAATAT | TGAATATGAT | 890220 |
| TTTATCACTC | TTCATGTGGG  | GGCTTGGGAC | TTTTCTTCCT | GTAAGATCTA | AAAAGGTTGA | 890280 |
| AGAACATAAT | ATGCATTTTG  | AAACTTTTTT | AATAAAAGAT | TTTGTGGCTG | TGAGATTGCA | 890340 |
| GAATGCAAAA | CTTCTTG GTA | AAAGAATTTT | GTCAATTGTT | ACCACAACGC | TTAGGGCTTT | 890400 |
| AGAGTCATCT | TATGATAATA  | ACCTTAAGAA | ATTTAAAACA | GGTCAGCAAA | GTACAAATCT | 890460 |
| TTTTATTTAT | CCTGGCAAGA  | ACTATTGTTT | TAAGTTTGTT | GACATGCTTT | TTACAAATTT | 890520 |
| TCACACACCT | CAATCTACTC  | TTTTGATGCT | CGTTTCTTCA | TTTGCAGGCA | AAGATTTTGT | 890580 |
| GTTTAGTTTT | TATGAAGAAG  | CTATAAATAA | AGGTTATAAA | TTTTTTTCTT | ATGGTGATGC | 890640 |
| TATGTTAATT | CTAAATAATA  | TATAGATATT | AGTTGTGAAT | TATTTTAATA | TTTAATTTAT | 890700 |
| GATAAAGGCT | TATTTAATTA  | ATTAGGAGGA | AAATGTATGA | ATACTTCTCT | TTTTAAGCAG | 890760 |
| GAAAGGCAAA | AGTATATTCC  | CAAATTGCCA | AATATTTTAA | AAAAGATTTT | TAATAATATT | 890820 |
| AGTTTAGTTT | ATGGAGAAAA  | TACTGAAGCA | ATTCAAGATA | GACAGGCTTT | AAAAGAATTT | 890880 |
| TTTAAGAATA | CTTATGGATT  | GCCAATTATA | AGTTTACCAG | AAGGTGAGTC | AAGTTTATCT | 890940 |
| TTTTCAAAAG | CTTTAAATAT  | TGGAATTATT | CTTTCTGGAG | GACCTGCTCC | TGGAGGGCAT | 891000 |
| AATGTTATAT | CTGGTGTTT   | TGATGCAATA | AAAAAATTTA | ATCCAAATTC | AAAGCTTTTT | 891060 |
| GGATTCAAGG | GAGGCCCTTT  | AGGCCTTTTG | GAGAATGACA | AAATTGAACT | TACCGAGAGT | 891120 |
| TTAATAAATT | CTTACAGAAA  | TACTGGGGGT | TTTGATATTG | TATCTTCTGG | AAGAACAAAA | 891180 |
| ATAGAACTG  | AAGAACATTA  | TAACAAAGCC | TTATTTGTTG | CTAAAGAAAA | CAATCTTAAT | 891240 |

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|---|--------|
| GCAATTATTA TTATTGGTGG CGATGATTCA AATACCAATG CTGCTATTCT TGCAGAGTAT             | 891300 |
| TTCAAAAAGA ATGGGGAAAA TATTCAAGTT ATTGGAGTTC CAAAGACAAT TGATGCTGAT             | 891360 |
| CTAAGAAATG ATCATATTGA AATTTCAATTT GGTTTTGATT CTGCTACAAA AATTTATTCT            | 891420 |
| GAGTTGATAG GTAATTTGTG CAGAGATGCT ATGTCTACTA AAAAATATTG GCATTTTGTC             | 891480 |
| AAACTTATGG GCAGGAGCGC ATCTCATGTT GCTTTGGAAT GTGCTTTAAA AACTCATCCA             | 891540 |
| AACATTTGCA TTGTATCTGA AGAGGTTTTA GCCAAAAAGA AGACTTTGTC TGAGATTATC             | 891600 |
| GATGAAATGG TGTCTGTTAT TTTAAAGAGA TCTTTAAATG GAGATAATTT TGGAGTAGTT             | 891660 |
| ATAGTTCCTG AAGGTTTAAAT TGAGTTTATT CCAGAAGTTA AGTCCTTAAT GCTTGAATTA            | 891720 |
| TGTGATATTT TTGATAAAAA TGAAGGTGAG TTTAAGGGGC TTAATATTGA AAAAATGAAA             | 891780 |
| GAAATTTTTG TTGCCAAGCT TAGTGATTAT ATGAAGGGAG TTTATCTGTC TTTGCCTTTG             | 891840 |
| TTTATTCAAT TTGAACCTAT AAAATCAATT TTAGAAAGAG ATCCTCATGG GAATTTTAAAT            | 891900 |
| GTTTCAAGAG TTCCTACTGA AAAATTGTTT ATTGAGATGA TTCAATCAAG ATTAAATGAC             | 891960 |
| ATGAAGAAAA GGGGAGAATA TAAGGGAAGT TTTACTCCGG TTGATCATTT TTTTGGCTAT             | 892020 |
| GAAGGCAGAA GCGCTTTTCC TTCTAATTTT GATAGTGATT ATTGTTATAG CTTAGGGTAT             | 892080 |
| AATGCTGTTG TTCTTATTTT AAATGGGCTA ACAGGCTATA TGTCTTGTAT AAAAAATCTA             | 892140 |
| AATTTAAAAAC CAACAGATTG GATTGCAGGG GGAGTGCCTC TAACAATGTT GATGAATATG            | 892200 |
| GAAGAGAGGT ATGGAGAGAA AAAGCCTGTT ATAAAAAAG C <sup>T</sup> yTAGTTGA TTTAGAAGGA | 892260 |
| AGACCATTTA AAGAGTTTGT TAAAAATCGT GATAAGTGGG CTTTAAATAA TTTGTATTTA             | 892320 |
| TATCCAGGGC CTGTACAGTA TTTTGGTTCT TCTGAGATTG TTGATGAGAT AACTGAGACT             | 892380 |
| TTAAAGTTAG AATTATTTAA GTAGTAAATT TATGTTTATT GTAAGCCTGT TGTTGCTTTT             | 892440 |
| TAGTGTTTTA AATGTTTATT CAAATTCAC <sup>T</sup> TGATTATTTT AAGTCCAATT TTAATTATTT | 892500 |
| AAAGTTAAGT GATGCTAAAA GTTTGCCATT GCAAGACAAA TCGACTTCCA GTGGCAATTT             | 892560 |
| TGTTTCTCAT AAAAAAATA ATAATATGTC TGTTGCTGAT AATGACGATT CTTTCTTTA               | 892620 |
| TAAAAATATT CAAGAGAATA AGGCTTTGAA TCTTGAGAAT GATCTTGAGT CAAAATCAGC             | 892680 |
| AAAAGATTTT TTTAGGTTTT CAGCTATTAG TATTGGATCT TTTCCAATAG TTTTATTTTT             | 892740 |
| GAGCTTATTT TTTTTTGATG TGAGTTACTA TTTTATAGC GGAATGAATG CAAATTACGT              | 892800 |
| TCCATATCCT TTTTCAAATG GTCCTAGTTT TTCAAAAGAT GAGATTTATA AAAAATTTAT             | 892860 |
| TGTTTCAGCT TCTATTGGAG CAATAGTTGC ATTAACCATT GCCTTGCTTG ATTATTTTCT             | 892920 |
| TTAATGATAT GATAAGAGTT AAGAGAGAAT TTACCGTTAA AGAAAATGCT TTAAGATTGG             | 892980 |
| ATCTTTACCT ATCAGGCAAT TTTGAAGTTT TTACCAGAAG TCAGATCAAA AGAAGAAATG             | 893040 |

|            |             |             |            |            |            |        |
|------------|-------------|-------------|------------|------------|------------|--------|
| TAGAAGCGTT | TAAAAAGAGT  | AATGGTAAAT  | TTTTAAAGAT | AAAATTATCC | AAGCCTGTTT | 893100 |
| TTAAAGATGA | TGAAATACTA  | ATTGAATTTG  | ACGAGGAGAG | TAGTCAAATT | GATTGCCTTA | 893160 |
| GGCCGAGTAA | TATCCCTATT  | GCTATAATTT  | ATGAAGATTC | CAATGTTATT | GTTTTGAATA | 893220 |
| AACCACAAGG | AATTTTGAGT  | CATCCTGGAA  | TATCACATTG | GGATGATACT | GTAGTGAATT | 893280 |
| TTCTTTTATA | TCATATAAAA  | AGCTTGAAAA  | TTAATTTTAA | TGAAGAAAAA | ATTAGACCCG | 893340 |
| GAATTGTTCA | TAGATTAGAT  | AAAGATACCT  | CTGGAGTTCT | AATTTGTGCA | AAAAACATTA | 893400 |
| GCACCTTAAG | ATTTTGTAGCT | CAGCAGTTTA  | AAGATAAAAG | AACAAATAAA | GTTTACATTG | 893460 |
| CAATTGTTAA | GGGTAATTTT  | AATAGTTTTT  | TTGGAAGCAT | TGAATCTTTT | ATAGATAGAG | 893520 |
| ATAAACACAA | TAGGAAAAAA  | TTTAGTGTTT  | CTAAAGATAG | AGGAAAAAAG | GCATTAACAG | 893580 |
| AATATAGATT | ACTGCTCAAT  | TTTGGGGAAT  | ATTCTCTTTT | AGCTTTAAAG | CCTAAAACCG | 893640 |
| GCCGTACTCA | TCAATTGAGA  | GTTTCATATGA | AATATCTTAA | TTTTCCAATA | TTGGGAGATG | 893700 |
| AGGTTTATGG | CAGAGTAGAT  | GGCAGTTTAA  | AAAAATAAC  | GCTAATGCTT | CATTCTTATA | 893760 |
| AGCTTGAAAT | TGATGTTGGA  | AAAAATTCTT  | TTAAGAAATT | TATTTCTGAA | TTCCCAAAA  | 893820 |
| GATTTGTTAT | TTTTTTGTCA  | AATTTTTTACA | AGAGTGATGA | ATTAAATTTG | ATTATTGATA | 893880 |
| ATTTGGTTCT | TTTTTTAAGA  | GATTTTTTAAT | TTTAAATTTT | TTGTTTTAAT | GAGATTGGGT | 893940 |
| CAGTTATTAT | TTTACCCCCA  | GTGATTTTCAT | TAGTGTTAAT | AACGGTAATG | AAACAATTTG | 894000 |
| GATCAACTTT | TTGTGATATA  | TATTTAATTC  | TTGATAAACG | CATTATTGGA | ACTACTATAA | 894060 |
| ATACTATAGT | TTTTTCTGTT  | CCTGCCCAAG  | CACCTTTTCC | GTCTATTAAT | GTAGCGGCTA | 894120 |
| ATTTTAACTT | GTTTGTAAGA  | AGATAAGCAA  | TTTCTTTTCC | TTTATCCGAA | ATGATTAATA | 894180 |
| TTGCTTTTTG | ATTGCCAAAT  | CCAGTACTTG  | TTTTATCTGT | CATGATAGAT | GTTACAAATG | 894240 |
| ATGCTATTAG | TGTATAAAGA  | GCGATTTCAA  | TATTAAAGAA | AAAGGTTGCA | AGTATTAATA | 894300 |
| CCACAAGATT | AACTACGAAG  | TTTGTTGTTT  | CAATGCTAAT | TGAATATTTT | TCTTTAATGA | 894360 |
| TCATAGCAAT | TATATCTGAT  | CCCCCTGAAG  | ATCCTTTGCC | CTTAAATATT | AGCCCAAGCC | 894420 |
| CAAGTCCAGA | AATAAGTCCA  | GCTAGTATTG  | ATACAAGCAT | CATATCATTA | AGATGTATTT | 894480 |
| TATTTTGTA  | AAACTGGGAG  | TGGTTTATGA  | TAATAGAATA | TAATCCCAT  | GAAATCCAAC | 894540 |
| TTTGAATTAT | AAATGTTAGG  | TTTAAAAATT  | TTATTcCAAT | AAGAAATAAT | GGTATGTTTA | 894600 |
| ATGCAAATAT | TGTcCATcCC  | AAATTGAAGC  | TTAATAGGTA | ATGTAGCATT | AATGAAATGC | 894660 |
| CCCCAATTcC | CCCACTAAGA  | AGTCCATGAG  | GAATATACAA | AACATTGGTG | GAAATTGCCA | 894720 |
| TTAGCGCAGA | TCCTAAAGTT  | ATTTGTATTG  | TGCTATCAAA | TATTAATTTA | GGATTTTTAG | 894780 |

|            |            |             |            |            |            |        |
|------------|------------|-------------|------------|------------|------------|--------|
| TTATAGTCTT | TAATTTTTTT | ATTAGTATTA  | GTAATAATAG | TTTGAGTTTT | TTTTTAATTC | 894840 |
| TACGACAACG | TATCTTTTTT | TTCTTTTTCA  | TCTTAATGTT | AGAGCCACTT | TTAAGCTACA | 894900 |
| AGCTAGTAAT | TTACTTGAAT | TCTATATTAA  | TTTTGCAAAA | AAAACAATTT | TATTCACCTT | 894960 |
| TTTTATTTTT | TTTGATATCA | TGTTTCATGAA | ACTATGGCGA | TGAATTATGC | AAGATTTGCA | 895020 |
| GTATTAATAG | TTCTGCTTTT | TTTTTATATT  | TGGTTTTTTA | TTATCCTTAG | GATGAAAAGA | 895080 |
| ACTAATCTGT | TTTTGTTAGA | AAAAATCCAA  | AATGGAGCAA | AAATTTTGGA | TATTCGGTCT | 895140 |
| CCCAAAGAAT | ATAGCAAGTC | TCATTATTTG  | AAGTCAATTA | ACATTCCTTT | TAATAATTTA | 895200 |
| TTTGCTAAAA | AGGATAAATT | AGGTGATTTT  | GAGTCCCCAA | TAATTGTTTA | TGGTAAAAGT | 895260 |
| TTTAATAAGT | CTTACGAGGC | TAAAAAAGTT  | TAAAAAAGCA | TGGGATTTAA | GAATGTGTTT | 895320 |
| GTTGCTGGAA | CCTTGAAAGA | CATGCCACAA  | GCAAAAAAAG | AAGTTGGTTG | ATGGCTAAGA | 895380 |
| TTATTGGGAT | ATCTGGTGGT | TCTGGAAGCG  | GAAAAACTAC | AGTTGTAAGC | AAGATTAGTG | 895440 |
| AGTTTATTCC | AGAATTTGTC | CTTATTTCTC  | AAGATAATTA | CTATAAGAGT | GTAGGCGATT | 895500 |
| ATGAACATGA | ATTTTCTAAG | GTAAATTTTG  | ATCATCCGGA | TGCTTTTGAT | AATAATTTGT | 895560 |
| TTTATGAACA | TTTAAAAAAT | TTAAAAAATA  | ATAGTCCAAT | AGATATGCCC | CTTTACGATT | 895620 |
| TTATTAATCA | TAAAAGACAA | CTTAAAACGG  | TTTTGGTTGT | TCCAACCTCT | GTTGTTATTG | 895680 |
| TTGAGGGTAT | TATGATTTTT | GTTGAAGAGA  | GAGTAAGAAA | TTTAATAGAT | CTTAAAATAT | 895740 |
| ATATTGACAC | CCCAAATGAT | ATTAGATTTA  | TTAGGCGTTT | AAGAAGAGAT | ATTTCCAAAA | 895800 |
| GAGGACGTAC | TGTAGAATCG | GTGATTGATC  | AGTATTTAAA | TACCACTAGA | TGGGGTTATT | 895860 |
| ATAGATTTAT | TGAGCCTACC | AAAGAATATG  | CTGATCTTAT | TATTCCCGAG | GGAGGTCATA | 895920 |
| ATGATAAAGC | GCTTTATGTG | CTTCAACGT   | TTCTTAAGTC | TTTAAGTAAA | GAAGGGTTAG | 895980 |
| ATTTTACCTA | AATTAATGAT | ATTGGGTAAT  | AATCTATCTC | AATATAAACA | GTGCTTGTC  | 896040 |
| TTTTTACCTT | TTCTTTTGTC | TTGTTAACTA  | GTTTTTCAAG | CAGGCTGTAG | GATTTTGACA | 896100 |
| AGTATATTAT | ATTGTATCTG | TAATTTTATG  | ATATTTTCTT | CATAATAGCT | TCTGATGGGC | 896160 |
| CTAAGTGTTT | AATTTCTTCT | TGCAAAAATT  | CTTTAGATTT | TTCAAAAAAT | TCCCAACATT | 896220 |
| TTTGTTTAGC | AGATTCTTCA | TTTTTGCTTC  | TAAATATTAT | TCTAATAATT | TTGTAAACG  | 896280 |
| GAGGATAGTT | CAATTTTTTT | CGTATATCTA  | GTTCTTCTTC | GTAAAATTGT | TCATATTGAT | 896340 |
| TCTTATAAGC | ATATTTTATG | GCATAATAAT  | TGGGATTTTT | TGTTTGTATA | ATAATTATGT | 896400 |
| TGTCATCCTT | GAATCGTGCG | GCTCTTCCCA  | TAATTTGTGA | GAGTGTTGTA | AAAATTCCTT | 896460 |
| CACCACTTCT | AAAATCAGGC | AGTCCCATTC  | CAATGTCAGC | GTTGATTATA | CCCAGTGTTT | 896520 |
| TTATATTTTC | AAAATTAAAT | CCTTTTGCAA  | TGATTTGTGT | CCCGATAAGT | ATGTCTATTT | 896580 |



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|------------|------------|------------|------------|-------------|-------------|--------|
| CTTTATTTTC | GAACCTATTT | ATTGAATCTA | TATTTTCTAT | TTTTGTAATA  | TCAGAATCTA  | 896640 |
| TTCTTGCAAT | TTTTGCATTT | GGTAAAAATT | TTTTTAGTTC | TTTTTCAACA  | AGCTGAATTC  | 896700 |
| CATAAGTTTT | GTATTTAATA | TCTTTTGATT | CGCATTGAGG | GCAATGGCTT  | GCTGTTTTTG  | 896760 |
| TTTTATAACT | ACAATAGTGG | CATAAAAGTT | TGTTTTCTTT | TTTATGGTAA  | ATCAAACCAA  | 896820 |
| ATGAGCAATT | TGGACAACAA | ATTATATGCC | CACATTCGTT | GCATTGAGA   | TTTTTTAGAT  | 896880 |
| ATCCTCTTTT | ATTAATGAAA | ATCAAAGATT | GTCTTTTTTC | ATTTAAACTT  | TTTTGTATAC  | 896940 |
| TGTATAATAG | TTCTGATGAA | ATTGTGCTAG | GTTCTTTTTT | CATATTTATT  | ATTTTTATAT  | 897000 |
| CTTCTATTTT | GCTTTGAGAG | AATTTGTTTT | GCATTATTAT | TTTTTTTATT  | TGGTTATTTT  | 897060 |
| TCATTGCGTG | GTATGCTTCA | AGAGAAGGTG | TTGCGCTTCC | CATTACAAAT  | TTAGCATTA   | 897120 |
| ATTTTTTTTT | TAAAAAAAT  | GATATATGTC | TTGAGTGAAA | TCTTGGAATG  | TTTTCAGATT  | 897180 |
| TGTATGTAGT | TTCGTGTTCT | TCGTCCATAA | TTATTAATTT | CAATTTGGTG  | AAGGGCAGCA  | 897240 |
| TTAAAACGCT | TTTGATGCCA | ATGACAACCA | GGCTTTCTCC | ATTTTAACT   | TTATTCCATA  | 897300 |
| TTAAATTTTT | ATCAGAATTT | GGAACCTTGG | AGTTATATTC | ATAAATTTTA  | TGGTGCATAT  | 897360 |
| TTAATGCATA | TTTTATTCTT | TTTATTATTT | GATATCCTAA | TGATATTTTCG | GGAATCAAAA  | 897420 |
| AAAGCACTTG | TTGTTCTAGT | GCTAAATAGT | ATTCACACAA | TTTGATAAAT  | ATTTTCAGTTT | 897480 |
| TTCCAGATCC | AGGTATTCCA | AAAAGGTAAA | AAACATTGGT | TTTTTCTGAC  | CCGATAATTT  | 897540 |
| CTTTGTAAAT | ATTTTGTTGT | TCGTTGTTTA | GCTCAAGGCA | TTTTTTATGA  | TCCGGATGCT  | 897600 |
| CATTTATTGA | AGGTAATGTT | TGATTTTTTT | TAGCTTTTGA | ATTTTGGGGC  | AACCCAAAGA  | 897660 |
| ATAAAGTTTC | TCCAAATCCC | GAAAATGTTT | TTTTACTAAT | CCAATGTGCT  | AAATCAATGT  | 897720 |
| TATGTTCTGT | TATTATTTTA | GTGTATCTA  | TTATTTTAAT | AATTTCTTTT  | ATTTTAAATT  | 897780 |
| CAAAATTTTC | TTTAAATTCG | TTTTCAAAAT | ATTTTTTAAT | AATTATTCCA  | ATTTTATTGG  | 897840 |
| AGCCATTAAA | ATTAACCATT | ACTCTTATTC | CAATTTCTAG | GTTTAAGTTA  | AATTTGTAAA  | 897900 |
| AAAAAAGTTT | ATTTAAAGGA | ATATTTATTG | CTATTTTATA | GTAATAAGTT  | GAATGATAAT  | 897960 |
| GCTCAACCAT | ATTTTATTAT | GCCTTTTATT | ATTTTTAAAT | CTTGCCATAT  | TTCTTTTTTT  | 898020 |
| AATTCTGGAT | TTTTTATTTG | ATTTGTAGGA | AGATATGTAA | AACTAATGG   | AATGCCTTTA  | 898080 |
| AATCTCAGCT | CTATTCCTCT | TACAATGTGA | ATTCTTAGCG | GTTGATTTAA  | GAAAAAATCT  | 898140 |
| ATTTCTTCGC | AAGATAAAAT | TGCTTTAGGA | TTTTTGTTGC | TGATTTCTAA  | GTTAAGTGAT  | 898200 |
| TCAATAGTAT | CTATTATTTT | ATAATTGTAT | ATGTTTATGC | TTTTGCACCA  | TTTTGTTATA  | 898260 |
| ATATCCCTTG | AAGGTTGCTT | AAGATAGTTT | TTGTTTACAT | ATATTATGAT  | TTGATCGTTG  | 898320 |

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|------------|------------|------------|------------|------------|-------------|--------|
| ATACCTTTTT | CTTGTAAGCT | ATTATTTAAT | AATATGTTTT | TTGAATTTTG | GTTTTCCAAA  | 898380 |
| GGTAATTTTG | CAGGTTCTTT | GCTATTTTCG | TTTTTTTGAT | AAATTTTAGT | GTTTTTAGCT  | 898440 |
| TTTTCTATTT | TTTGTTTAAT | TTCATTGTCT | ATTTCTTCAA | AATTTTCGGT | AATTTTGCCT  | 898500 |
| TCTATATTAT | TTGTCAATAT | TTTAAGTAAA | AAAAGTTTTT | TAGTTAAAAC | GCTATTATTC  | 898560 |
| ATAGTAAACT | CTTTCTAAAA | ATAAAGCATT | TGCAGGTGCA | GTTGTTCTTG | CAAGGTTTCT  | 898620 |
| ATTTTTTGAT | TTTAATATTG | TTTCAAAAGT | AGAAATTGAT | TCGTTTTTTA | TTTCAATGTC  | 898680 |
| CAGCATTGTG | CCTATTATTG | ATCTTACCAT | TTTCCACAAA | AAAGAAGATC | CTATTATTTT  | 898740 |
| AAAAATAATA | TATTTTCCTC | TTTTTTTAAA | TTTGGCAAAA | TATATATGCC | TAAATTTAGA  | 898800 |
| TTTGCTTTTA | TCTTTTATGC | ATGAAAATGT | GGTAAAATCA | TGTTTTCCAA | TCAATGTTTT  | 898860 |
| GGCCATTTGG | TTTAAATTGC | TTATGCTTAG | TTTTTTATTT | ACATAGTGAG | CTTGATAACC  | 898920 |
| TTCCCAGGGA | TAGTAGTTAT | CGCTGTTTAA | TATACAATAG | CTATATTTTC | TTTTTTGAGC  | 898980 |
| GCTAAAACGT | GGATGAAATG | AATTTTTTAC | ATACCTGAGC | TTTAGTATTT | TTATGCTGTT  | 899040 |
| TTTTAATAAT | ATTGCATTTA | AAGCTTTTTT | TAGATTGTTT | AGCTGAATAT | TGATTTTTAT  | 899100 |
| ATCAAAAGTT | ATTATTTGCT | TTTTTGCATG | AACGCCTTTA | TCTGTTCTTC | CGGATGAATG  | 899160 |
| AATTTTTACT | TTTTTTTTAT | TGATCTTCAT | TAGAGCTTTT | TCAATTTCTC | CTTGAAGTGT  | 899220 |
| AGGCTTTGTT | GGTTGTATTT | GAAATCCATG | GTATATGGAT | CCGTCATAAG | CGATTTTCAGC | 899280 |
| TAATATTTTT | TTCATTTATT | TAAGATTTTT | CATTTCCCTT | GATATTTTAA | AGTAAACTTC  | 899340 |
| TTTGATTTTA | TCTAAAAGTA | TTGAAGGCTT | TTCTTTTGAA | AATTTACCCA | TGCCTGCTAT  | 899400 |
| TTTAGAAAGA | GTGGTTTTTA | TGTCGTTTAA | TTGTTTATAT | CTATATTCTT | TATTGTCTTT  | 899460 |
| ATTTCCATAA | AAGTATTCTA | GAAGGCCTGA | TAAGTATAGC | ACACTATCAT | AGCCATAATT  | 899520 |
| TTTGTCTGTA | TCTGGGCCAA | ACATGGTTGA | TGCACTAACA | GGTTCTGAAT | TGCTCTTATC  | 899580 |
| TTTTTCAATA | ACTAGTTTAT | AAAGGTATGC | AGCTTTGTGG | TAAAAATATT | TTTGAAGATA  | 899640 |
| ATTATAGTTT | TTGTTTGGTT | CTTCTTTTTT | AAGGTCTTCG | AATGTCCAAG | CGGCTCTTAT  | 899700 |
| TGCTGACTTT | GCTTGATTTA | ATGTGGGGTT | ATAATTCCTT | TCCAGATGCT | CATAAGACAG  | 899760 |
| CATGGCAAGA | ATATAGCTTG | CAGCTCCTTC | TTTTAATGTC | CTAGGTTTAC | TGAAGTTGAG  | 899820 |
| CATGTTGTCA | AAAATTGTAT | TTATTTTTTT | TCTTTCGTAT | TTTTTGTTTT | GCAAAATTTT  | 899880 |
| TTTCTTGTTT | TTAGGGATTG | AATTAAATTC | GCTTGGAAT  | GCTGCAAAGT | AGCATTTTGG  | 899940 |
| ACATACTGTT | ATAGAATATA | TTCTAGGATA | AATGTTGCCA | TATTTGTCGT | TTTTTATATA  | 900000 |
| TTCTCTTTTT | AGATCAATTT | TTAACTCTCC | GGCTATTAAT | CTACTACTTC | CGGTCAAAAA  | 900060 |
| TTCTTCTTTT | TGAAATTTAA | AAGAGCATAC | AGGACACTCA | ATTTTTTCTT | TTGTAAAATA  | 900120 |

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|-------------|------------|------------|-------------|------------|-------------|--------|
| TGATATTTTT  | TTCATGAATT | AATTTTCTAC | TATTACAAAT  | GCAATAGCGT | ACTCCTTTTC  | 900180 |
| ATGGGATATT  | GTTAGGTATA | GCTTTAAATT | CATTTTTTATT | GCAAATTTTT | CAACTTCATT  | 900240 |
| ATGCAAACAA  | AACTCCGCAT | TTCCTTTTAA | AGATTTTATT  | ACCTCAATAT | CTTTAAGGGT  | 900300 |
| ATAATTTATT  | TTATATTGCA | ACAGTGGACT | TAATGCTTTA  | ATTAAAGATT | CTTTAGCTGC  | 900360 |
| AAATTTTCCA  | GCTAAACTTT | CTATAATGCT | ACCCCTTTT   | AATTTAAAAT | TTTCAATTTC  | 900420 |
| TTTATGTGTA  | AAGAACCTCT | CCATTTTTTT | CTTATTTTCT  | AAAAAATTTT | TAAATCTTTC  | 900480 |
| TACTTTTATT  | ATATCACATC | CTATTGACTT | CATGGTTTGA  | TCTCTGAGCT | TTCAATTATT  | 900540 |
| TCTAGTTTTA  | TTTTTTTGGG | TTCATAATCA | TATATTTCTG  | TTTCATTGAT | ATTCTCTTTA  | 900600 |
| AGAATTATAT  | TTGCAGCAAT | GTTATAAATC | CCGGGAGTTT  | TTATATCTGC | TAAATCAAAA  | 900660 |
| GCAAGGCTTA  | TATTTTGATT | GTTTATATGA | GCTTTAATTT  | GTTTTTCAGA | AAGTCTTGTT  | 900720 |
| TTTATTTTTA  | CGAACATTTT | ATTTTCTGAG | TTTATTATTT  | TTTCTTTATC | TTTAATTTCA  | 900780 |
| AGGCCATTTT  | TAAGATTATT | AAAAATAAGA | TTAGGAGATT  | TTATTGTTGT | GTTTGAATAT  | 900840 |
| TTTTTGTTTA  | AATAAATATT | GACTACCACG | TGACTTTTTT  | CAAACATAAC | TAGAGGATTT  | 900900 |
| GGTGGAAC TA | CTTCAAGATA | ATCTGATACA | AATAGAGTTC  | TTGTGTCAAA | CTCTTTTACG  | 900960 |
| TTGGTTTGAA  | TGGTGTTTAT | TTTTTTGAGC | TCTTGCTCAG  | GTCCATATAC | TAATAAATTC  | 901020 |
| TCAGGTAATA  | TATTGTATTT | TGCAATAAAA | TATCTCCCT   | TGCCATCTTT | TTCTATAAGT  | 901080 |
| TTAAACTTGG  | GTTCTATTTT | AACTAATTTA | GAGACTTTGT  | TATCAAGATT | TAGCAACACA  | 901140 |
| TTTGTTTTTG  | AAAGCTTATA | TTCTGCAATG | TGTATTGAAT  | TAAGATTTTT | TATTTTTTATT | 901200 |
| GGTAGCTTAT  | AGCTTCCAGG | AATCTTTATG | CTTGATGCTT  | CAATAAATAA | TATTATTTTA  | 901260 |
| TTAAGATCAA  | GGTATTTTAA | GTCATCTTTG | TTGACTTTTA  | TTGTAATCTT | GATTTTGCTA  | 901320 |
| AAGTCTGGTA  | TTTTTCCAAG | AGCTATTTGA | TCATTCAAGA  | TAATTTTGAA | TTCTTTTTTCA | 901380 |
| GTTGTTATTG  | ATTCTATTTT | ATTAAAGTTA | AATGCTACAA  | ACATTAAAAT | AGCTATTAAA  | 901440 |
| ATGGAAATAG  | CTTTGTTTTG | CCAATCATCA | AATAGCAACT  | TTATTATATT | TATTATTTTT  | 901500 |
| TTGCCTATTT  | CCATTATTTT | ACTCTATTAG | CTCTAGATTT  | AACTTATTTT | TAATTTCACT  | 901560 |
| TAAGCTTAAA  | TTGTATTCCA | ATTTTGCATT | GATTGTAATA  | GAAATAGATC | CAGTCTCTTC  | 901620 |
| GGAGGTTATT  | ATTGTTATTG | CATCAGAATT | TTCAGAAATC  | CCAAGTCCTG | CTCTATGTCT  | 901680 |
| TGTTCCAAAT  | GCTTTGCTAA | TAGAATCAAC | ATTAGATAAT  | GGTAAAAATG | AGCCTGCGTA  | 901740 |
| TTTTAATTTA  | TTCTTGCTAA | TTATTACAGC | TCCATCGTGA  | AGAGGAGTTT | CGCGCTCAAA  | 901800 |
| TAGTGATATT  | AGCAGTTCAC | TAGATATTAG | CGCATCAATT  | TTAGTTCCTT | TGTTTATTAT  | 901860 |

|             |            |            |            |            |            |        |
|-------------|------------|------------|------------|------------|------------|--------|
| TTGCTCCAAC  | TGTATTTTTT | TTTCAATGCA | TATCAAGCTG | CCGGATTGTG | TTTCAGATAG | 901920 |
| GTGTTTGA    | GCTTTTAGGA | TTTCAGAAAT | AACTTTTAAA | GTTTCTTCTT | TTTTATTTGA | 901980 |
| AAGCTTAAAG  | GCCAAATTGA | AATTTCCAAT | TTGCATTATT | ATTTTTTTTA | TTTCTTGATT | 902040 |
| AAAAAGTATG  | ACTATTGCTA | TTGGTAATAT | ATTGGCTATA | TAATTTAACA | GCCAACTAAT | 902100 |
| AGTATAGAGA  | TTTAAATAAT | ATGAGATAAT | TCCTACAGAG | ATAATGATCA | ACATTCCTTT | 902160 |
| TAATAGATTT  | GTAGAATAAG | AATTGATTAC | GTTTTTATAT | ATGTAGTATA | CTAGGATGCT | 902220 |
| AATTAAGCTT  | AGATCTAAGA | TTCTTGAAAA | AGTATCTTTT | ATTTGATTTA | AATCATTTAT | 902280 |
| GTCTATCATA  | AATTTTCTAC | TCAATGTGAA | AACACTGTAC | TTATTAACCT | ATATTAGTAT | 902340 |
| AATATAAAAT  | ATATAAATAA | GCACAGTTTG | TAATTATTAA | ATTAAATTGT | TTTTGAATTT | 902400 |
| ATGAATGAAA  | GAGAAAATAT | TATAGCTTTA | ATATTTGATT | TTGATAATAC | TCTTATTTAT | 902460 |
| GGCAATATGC  | AGCAAGTACT | GTTTGATGAG | TATTGTGTTG | ATTCTTGTTT | TTTTTGAGAG | 902520 |
| GAAGTTGAAG  | GTTTAGAGTA | TGTTTATAAG | CAAAACGGTT | ATAATATAAT | TTCTAATGAA | 902580 |
| ATGATATATT  | TATCCCATTT | TTTAACCTAC | GTAAGGGAAG | GGTTTTTTGA | AAGTCTGGAT | 902640 |
| AATAGAGCAT  | TATTTAATTT | GGGTGCTAAG | TTAAGATTTT | TTGAAGGGGT | TATTGGCTTA | 902700 |
| TTTGATGAGA  | TATCTGAAAT | AAATAAGAAG | TTGGAAAATA | GCAAGTCTCA | GATTAAAATT | 902760 |
| TACATTGTTT  | CAAGTGGGTT | TAGACAAATG | ATTTTGGGAA | GTAAAATTGC | CCCTTATGTG | 902820 |
| AGTAAAGTGT  | GGGCATGTGA | GTTTATAGAT | TCTTATTTAA | TGCCTTTTTA | CGAACTCAGA | 902880 |
| GATGATAAAT  | TTTCTAAAAA | TAAGATTTTA | AGCAGTGTTT | GCTACTTTGT | AGATCATACA | 902940 |
| ATAAAAACCA  | GAGTTATTTT | TGAAATCAAT | AAAGGGTCTT | ATGAGAAGAT | TAATGAGAGA | 903000 |
| GTGCCAAAGA  | GCAAAAGACA | AATTCCTTTT | AAAAATATAT | TTTACATTGC | AGATGGATTT | 903060 |
| AGCGATGTTC  | CGGCATTTGA | AATCTTGAAT | AATATTTTGA | AACATTGTAG | AAATACCTTG | 903120 |
| ACAGTGTATC  | ATGGAAATGA | TAAGAATGCA | AAAAAATTGT | TTTATGAGAA | TAGAGTTGGA | 903180 |
| GATTTTGCTG  | AGGCCAATTA | TACTAAGGGT | ACTAAATTGT | ATAATTGGAT | AATGGAGAAA | 903240 |
| ATTTGCTTGA  | GCGTATGATT | CATGTAACCT | ACTTTTGTTT | AGTTGATAAA | AGCAGTAAAA | 903300 |
| AAACGAAAAG  | AGGGGAATAT | GCTTAAAGAT | TTAAATACAA | ATCAAGGGTT | AAAGCCTTGG | 903360 |
| AGAGTGGAAT  | CTGTTTTTTA | TTGTATTGTT | ATAGTTTTAA | TATTTATTGG | GGCCTTTAAA | 903420 |
| ATAGCAGAAG  | CCGTATTTAA | ACCTTTGGCT | ATTTCCATAG | TGTTGGGATT | TTTAGTTTAT | 903480 |
| CCTGTTTATA  | CTTTTTTAGC | AAGATTCAAA | GTCCCAAAAT | TTTTAATAGT | TTTTATTATA | 903540 |
| TTTTTTTTTAT | TATTTTCTTT | TTCTTATTTG | ATTTTATAGT | TTGTTTATTA | CAGCGTTACT | 903600 |
| GTTTTAATGA  | AGCAATTGCC | ATACTATCAA | AACCAATTAG | CATTTATCAT | GAAAGATGTG | 903660 |

|            |            |             |            |            |            |        |
|------------|------------|-------------|------------|------------|------------|--------|
| CTTAGTCGAT | ATAAAGTTGA | TAGTTCCTGTT | ATTAATGATG | TGAATTTTTC | TGGTTACATT | 903720 |
| TATCCTTTTT | TAACAAGAGC | TTATAATGAA  | ATTATTGGAT | TTACAAGCAG | TTTGGTAGTA | 903780 |
| GTTTTTTTGC | TGTTGTATTT | TTTGCTTTCA  | GAAATACATG | TTTTTGAAAT | GAAGCTTGAT | 903840 |
| AAAGCTTTTA | AAAAGCCGAT | ATCTACTAGA  | TTTATTGGGG | CTTTAGATAC | CATTAATAAT | 903900 |
| CAAATTGGCA | AATATTTGGG | AATAAAAATT  | CTTGTTAGTT | GCTTAACGGG | CATTTTAGTG | 903960 |
| TTTATTGGAT | TAACCTTGTT | TGGGCAAGAT  | TTTCCTCTTG | TTTGGGCAGT | TCTTTCCTTT | 904020 |
| GTTTTCAATT | TTATTCCCAG | CATTGGATCC  | ATATTAGCTG | TGTTTTTTAT | TGTAATAACA | 904080 |
| TCTTTAATTC | AATTTTATCC | AAATTTAAAC  | ATAGTGCTTT | ATGTTTTTAT | ATATAATACT | 904140 |
| TCTATTCAAA | TGTTGATTGG | AAATATTCTT  | GAGCCAAAAA | TGCAGGGGAA | AAGACTTGAT | 904200 |
| ATTTCACCAT | TTTTACTTTT | ATGTTTTTTG  | TTTTTTTGGG | GATGGCTTTG | GGGTATCGTA | 904260 |
| GGTCTTTTAA | TATCTTATCC | TTTCACTGTG  | ATTGTAAAGG | TAATAGTTGA | TAATGTGAGT | 904320 |
| TGGCTTAAGT | CTTTTTCTGT | ATTTTTGGGT  | GGCTCTGAGA | TTTTAAGTAA | TATTAGCCAT | 904380 |
| ATTTCAAGTA | AAGATAAGGA | GATTTGATTT  | TGAAAAGAAA | GGTTATGCTT | ACGGGAGATA | 904440 |
| GGCCTACTGG | CGCTCTTCAT | TTGGGGCACT  | ATGTGGGGTC | TGTAGTAAAT | CGGTAAAAAT | 904500 |
| TTCAAGAAGA | GTATGAAACA | TATTTTATTA  | TAGCCGATTT | ACATACTTTG | ACTACAAAGC | 904560 |
| CTGACTTGAA | GAGCATCAAT | ACAATACCTT  | CTAATGTTAG | AGAAATGGTT | TTAGATTATC | 904620 |
| TTGCTTGTGG | AATTAATCCT | GATAAGGTTA  | GTATATATCT | GCAATCAGCC | ATACCCGAGC | 904680 |
| TTTTTGAGCT | TCATTTAATA | TTTTCAATGA  | TTGTTACTGT | TGCGCGCTTG | CAAAGGATTC | 904740 |
| CAAGTATAAA | AGACATGAGC | ATTGCAGCTG  | GACTTAAAGA | GATTCCTTAT | GGCCTTTTGG | 904800 |
| GGTATCCTGT | TCTTATGAGT | GCAGATATTT  | TAATGACAAA | AGCAAATTTA | GTTCCCGTTG | 904860 |
| GGCGTGATAA | TGAATCTCAT | ATTGAATTTG  | CAAGAGAGCT | TGCACGAAGG | TTTAACCATT | 904920 |
| TGTACAAAAA | TAATTTTTTC | CCAATACCCG  | AATCTGTTTT | CACAGATTCT | CGTCCTTTGG | 904980 |
| TGGGTATTTA | TGGCAAAAAT | AAAATGAGCA  | AGAGCCTTGA | TAATGCAATT | TTTTTAAACG | 905040 |
| ACGATGAAAA | TTTATTAGAA | AAAAAAATTA  | TGTCTATGTA | TACAGATCCA | AATAGGATAA | 905100 |
| GGGCAGATAT | TCCTGGCAAT | GTTGAAGGTA  | ATCCCATTTT | TATTTATCAC | AGTTTTTTTA | 905160 |
| ATAGTAATCA | TGAAGAAGTT | GAGGATCTTA  | AAAGTAGGTA | TAAGAAGGGT | AAAGTAGGTG | 905220 |
| ATGTTGAGGT | TAAGAAAAAA | TTGTTTTTAG  | CTTTGAATAG | TTTTTTAAAG | CCAATAAGAG | 905280 |
| ATAAAAGAAG | TTTTTATGAA | GCCAAAAAAA  | AAGATTACAT | TGATGAAATT | ATTTTTGATG | 905340 |
| GTACAAGCAA | GGCGAGGTTT | ATTGCAAATA  | AAGTAGTAAA | AGATGTTAAG | GATTTAATAG | 905400 |

|            |            |            |             |            |             |        |
|------------|------------|------------|-------------|------------|-------------|--------|
| GGCTTTCAAA | AACTTGGAAT | GGAATAAAAT | ATAGCGCTGA  | GAAAAAATTA | AAAAATGAAG  | 905460 |
| AATGAAAATT | ATTGATTTTA | TGCTAGACTT | ATATTAGTAA  | TTAACTTATT | ATTTAAATCA  | 905520 |
| AACAATATTA | ATTATTAGGT | AGATTTCGCT | TTTTTATTAA  | TTTTTTGTTA | AATTCTAGTA  | 905580 |
| GCTTGAATAA | AATGTTTCTT | TTTGTGTAAA | TAAC TTCGCT | GAGCACTCTT | GTTACTGGTT  | 905640 |
| CTGTCTTTGA | GATTCTCATC | CATAAGGTTG | CAACAATTTT  | TTTATTAGTT | TTTAACAATA  | 905700 |
| CCTTTAATCC | TCCCGAAGAA | TCTCCTGTTT | TAATCTTAGA  | TTGTCTTTTG | CCTTCATAGT  | 905760 |
| TAATGATTTT | ATAATCAACT | ACTGATAATT | CTTGAAATAA  | CTTATTACTT | TTTATCTCTT  | 905820 |
| TAATCAATAG | ATTTTCATAA | TTGCTTTTTA | AAATTTCTTG  | ATTTTCTATT | TTTAGATTGT  | 905880 |
| TTAAATTGGC | TTTTTTGGAT | GATACTATTA | CATTACTATA  | AAAATTTGTT | GTATTTAAAA  | 905940 |
| TATCTTTTAA | GTCGTACTTT | TCTTTATAGT | GGTTTTTAGA  | CAATTTACAC | CATATTTGGT  | 906000 |
| AAAGTTCTTT | CATTTTAAAT | AATTTTACGA | TACTAAGTAA  | AGTAGTAATT | GGGTCTCTTA  | 906060 |
| CCCTTGAAGG | ATGAATTATG | CATCCCCCAT | TTGATCCCTC  | TCCTGAGATT | TTTACAATCA  | 906120 |
| ATCCCTGGGC | TCTTAAATCA | TCTGCCATCT | CTGTTAAATT  | AGCTTCTCCA | ACCTCTACTC  | 906180 |
| TATAAACTTT | GGCGTTGAAA | AAATTTGCAA | TTTTTTCAAT  | ATTTAGAGAT | GTTGCATCAT  | 906240 |
| TGGTTACTAT | TGCTATGTTA | TTTTTTTATC | CTGTATAATA  | AAGATAGCTA | AGTTCTGAAA  | 906300 |
| TGACTACAAG | TGCAAATATT | TTTTGTGCTT | CGATGATATT  | TGCAGTGTTT | GTGGCTTTAT  | 906360 |
| CTATAAACAC | CAGATTGCCC | CTATCTCCAT | CACAATCTGG  | TACGTATCCT | AGCTCAAAAG  | 906420 |
| AATTGTCTTG | TATATATTTA | TTTTGTAGCA | ACTTTTTTACA | TTCATTTAAG | GATTTTCCTT  | 906480 |
| CAGGAATAAT | ACTGTGCTTA | AAAATACCTA | TTTCGTCATT  | ATATAATTTT | ACTTTCAATC  | 906540 |
| CCAAAGATTC | TATCAATTCT | TTATCTATCG | AATTGATTCT  | GGAGCTTCCG | TTCATCTCTG  | 906600 |
| CTATTATTCC | AATTGGATTT | TTTAGTATTC | TTTTCTTTAA  | AATTTGATA  | TTTTTATTGT  | 906660 |
| TAATATCGTT | TTCATATGCT | ATTTTATGTA | TTAATGATTT  | ATATGCTTCA | TAAGATTGGT  | 906720 |
| TTTTATTTTT | TCTTTCTAAT | TTTATTATTT | TATTATAATA  | TTCTAAATTG | GATTTATCTT  | 906780 |
| CATCAAATTT | GTTTAGAGTG | TTAATTAAAT | GGCTTATTAG  | CTTTTCATTT | TGGCTATTTT  | 906840 |
| TTTTAATTTG | CTGTATTATT | TCATTAGCTT | TTGCGGAATT  | TAGTACGCCA | CCATCGTTTA  | 906900 |
| ACCCTATTTT | TATCCCATTG | TATCCTATTG | GATTATGGCT  | TGCGGAAATA | TAAATAAAGC  | 906960 |
| CCTTTGAATC | TTTGCTGTTT | TTTGTATAAG | CTAAAATTTT  | AGTTATTGGA | AGTATTCCAA  | 907020 |
| AAAATCTAAT | CTTTTCTTTG | TTTGTTATTA | ATATTTTAT   | TGTTATTTCT | GCAATAATGT  | 907080 |
| TGCCAGTTGG | TCTTGAATCT | AATCCCAATC | CAATATAGGG  | CTTAGATTCA | TTTTTAAAT   | 907140 |
| AATTTGATAT | TGTGAAGATT | ATTAGTGCTA | TTAGTGCTTT  | ATCTTTATTG | TTTATTTTCAT | 907200 |

|            |             |             |             |             |             |        |
|------------|-------------|-------------|-------------|-------------|-------------|--------|
| TTTCTGTTGA | ATCTTCATTT  | TTTGATTTTG  | CAAAAATTTT  | TCTAAATCCT  | GAAGGAGAAA  | 907260 |
| ATATCATCTC | ATCAAAAGCT  | TTTTTAAAAAT | TTTTCATGTT  | AAGTGAATAT  | TGTTTAAGCA  | 907320 |
| TGTAAATTTT | TTCTCATTGA  | TATTCTAGTC  | ATATTATTGC  | TATAATTTTA  | ATAATCAATA  | 907380 |
| GTATAGCCAC | TTATGTTATT  | ATACTTAAAA  | ATTTGTTTTT  | TTGCTTATAT  | TAATAAGCTT  | 907440 |
| TTCTTTAAGG | GTTTTGGTTT  | TAACTTATGA  | ATGTTAAAGT  | TGATAAAATT  | TTTTCTGAAA  | 907500 |
| TGATACTTGA | AAAACCTAAT  | TCTGGCAAGA  | TTTGTCTTAA  | TACTTTTGAA  | TCCATTAAAT  | 907560 |
| ATTTTCCTTG | CGATACCATG  | AAAATATTTT  | TAATATTTTCG | GATGAAATTT  | TGAGGTTTAA  | 907620 |
| GTTCAACAAA | GGCTTG GTTG | AAGATAATTT  | AAAAAAATAT  | TTTCATGATT  | TTTCTAAATT  | 907680 |
| TTTGCAATCA | GAAGAAGGTG  | ATTGTTATAT  | TTTTTCTTCT  | TGTGATCTTG  | AAAATTTGGG  | 907740 |
| TCTAATGCTT | TTCCCATACC  | TTTCTTTTGG  | AATCTTAAAT  | GGTGGCTCTG  | CAACAAGTTA  | 907800 |
| TTTTGATTTA | GCTAAAAATA  | GGGCGTTAAA  | TGAAGATTTA  | TATATGTTAT  | ATGAATCTAA  | 907860 |
| AATACTTGAA | TTTAAAGAAA  | AATTTGGAGA  | ATTTCCAAAG  | GGGATAACAC  | CAGCTTATAT  | 907920 |
| TAACAAAGAT | GGTAGTTTTG  | GATTTTCATT  | TTTGGCTTTG  | AAAATTAGGC  | ATCTTTTAAT  | 907980 |
| GGTTGCTAAA | AGATATGAAT  | CTTTTTGTGG  | CAAAATGATC  | AAGCCCTCAA  | TATTTCAAAT  | 908040 |
| GACTAGTTGC | AAAACGGATG  | AATTTATTTT  | AAAATCTTTG  | GACGATTTAT  | TTGCAGATGA  | 908100 |
| CTTGATTAAA | AGTGTAATTT  | TTTGCAATCT  | CAAAAAAGAA  | GATGTTTTTCA | CAGCTGTTCA  | 908160 |
| ACCTTTAGTT | TATTGTTATG  | AAAAACTGAA  | TAGCTCCAAT  | TATCAATATT  | TTACTCTCAA  | 908220 |
| AGATAATAAA | AATGCTAATT  | CTATTTTGGC  | TTTGCCTGCC  | GGTCATGGTC  | AAAATTTTAA  | 908280 |
| AATTTTAAAA | GATATTTATT  | TAAAGCTTTA  | TGAATCTGGT  | AAAAGATTTA  | TATATATTGG  | 908340 |
| TAATGTTGAT | AATATGGGCT  | TTACAATTAA  | TTTTAAAGCA  | CTTGCTTTAA  | TGGCTTTGAC  | 908400 |
| TAATTGTTCT | TCTGGGTTTG  | AATTTAGTTT  | TAAAAGCAAA  | GCGGATTTTA  | AGGGAGGGAT  | 908460 |
| ATTGGCAGTA | AATGGTGAAA  | ATCGTTTAAC  | TTGTGTTGAT  | ATTGGCGGGG  | GGATTTCTTC  | 908520 |
| AGAGATTGTG | CAAGAGTTTG  | AAAATAAGGG  | TAATAGACTG  | CTGTTTAATT  | GTGCAACTGG  | 908580 |
| ACTTTTTAAT | TTAGAGTATT  | TGATAAAAAA  | TATTGATGAA  | ATAATAGAAA  | AAATGCCCCAT | 908640 |
| TAGAATTATA | GAGCAAGATA  | AAGAAATTGG  | TAAATATATT  | TCGGTTGAGC  | AAATAACGTG  | 908700 |
| GGAAGTGTTA | AAATTAATAG  | AAAATCCATT  | AATTTTAACG  | GTTGATAGAA  | ATAGAAGATT  | 908760 |
| CCTTCCTGCA | AAGTTATTTA  | TTAACATGTT  | GCTTAATAGT  | AATCTTGAAG  | ATATATGTGG  | 908820 |
| ATATTGTTGT | AAAAAGGGGA  | TCGATAATTC  | TGCTAAGAAT  | TTTAGCGCTC  | TTCCTGATTT  | 908880 |
| GTTATCAAAA | GATTATGGTT  | TGCTTTGTGG  | GCTATATAAA  | TGGACTTTTTT | AAAAACCTTT  | 908940 |

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|            |            |            |             |            |            |        |
|------------|------------|------------|-------------|------------|------------|--------|
| TCTTTTTTGT | TTTTTAGCTT | TTTTTGCTTA | AATTTAATTG  | CGATAGAATC | TTTACCAGAA | 909000 |
| ATAGATTATG | AATATTTTAA | CAAGGATAAA | TCAGATCTTG  | TAGATTTGAT | AAAATTCTTA | 909060 |
| GGTGAATTAG | ATTTTCAAAC | TATTTTAAAA | GATAGAAATT  | TATTTATTGG | GATTAGAAAT | 909120 |
| TTAACAAATT | TTAAGAATGT | TCAAGAGCTT | AATATCGATG  | ATATTAATAG | AATAAAAAAG | 909180 |
| ATTAATCCAA | TTGGTATAAT | TTTATTTAGA | GAAAATTTAA  | AAGATGCGGA | GCAGACAAAG | 909240 |
| GGATTGATTA | ATGCAATAAA | GAGTCATATT | GGACATGATA  | TTTTTATTGC | TATTGATGAA | 909300 |
| GAGGGGGGAA | TAGTTAGTAG | AGCTAGTGAA | AATAAAAAAA  | TGGGGGTTTA | TAATTTTCCG | 909360 |
| GCCATGGAGC | ATGTGGGGGG | TGTTAAAGAT | TTGCATCTTA  | TTTATAAAAT | TGGTGAAGTT | 909420 |
| CTTGCTAAAC | AATTGCGTAG | ATTGGGTATT | AATTTAAATA  | TGGCTCCAGT | TGCCGATATA | 909480 |
| AAATTTGCAC | CACATACTCC | TTTATTAAAT | AGGACATTTG  | GAGGATATTC | CGCTTATAAT | 909540 |
| ATTGGACTTA | TGGTAGAAGC | TTTTATTGAT | GGTATGCAGA  | ATAATGGAGT | ATTTTCGGCA | 909600 |
| ATCAAACATT | TTCCTGGATT | AGGGGGAACA | ACTACAGATA  | CACATAAATA | TTTAGCATTT | 909660 |
| TTGCCTTATA | GTAAAAGCTT | TTTAATGTTA | AATAATTTTG  | TTCCATTTGT | TTTTGGTAGA | 909720 |
| GCTGCTAAAT | TTATTATGAT | TGGTCATGTA | AATGTTCCCTA | AAATTTCTAA | AGATATAACT | 909780 |
| AGCATGTCTA | AAAGTATTGT | TAATATTATA | AGGGAAAATT  | TAAATATTAC | TAGTATTATG | 909840 |
| ATGACAGATT | CTTATGATAT | GGGAGCAATT | ACAAGAAGTT  | TTTCTAATAT | TGAAAATGCT | 909900 |
| ATTAAAAAGT | CTTTGAGTTC | GGGTGTCAAT | ATAGTACTCA  | TTCCTTAGTG | AAATTGTTTT | 909960 |
| GAAAATTTGT | TTTTGGTCTT | TTTACAATTT | GTGTTAAATA  | ATTTATACCA | TAAAAAAAGT | 910020 |
| TCTATAATAA | AAAAAGGATT | ATATAAATAT | AGAAATTCCT  | AGATCTAAAA | GGATAAATTC | 910080 |
| TTTAAAAGAA | GTCGATAATT | TATAGTAAAT | ACTATAGTTA  | TTAGGTATGA | AATCAATTTT | 910140 |
| AAATTTGAAG | GTAATTATGG | GAAGAATTGG | ATAGAGAAAT  | GCATGAGTTG | TTTTTCCTGT | 910200 |
| AAATATAGTA | GTTCTCAGAG | TTAAATCGAT | TTGGGTTCCA  | ATAAAAAATT | TTATAGCAAG | 910260 |
| TGTATCAGTT | AAAATTGAAT | ACTTGGTAAT | GTAAATAGTG  | AAAGCTAAAT | TGAAATAAGT | 910320 |
| ATTTGAAATA | AAATCTTTAT | TTGTTGGGAT | AGTAAAAAAA  | TTTATGGGGC | TAAATTGTAT | 910380 |
| TTCAATCCAT | TCATTATAAG | ATGTCAATAT | TCCGATAAAG  | GCAATGTATT | TATAATTTTC | 910440 |
| ATTGTAAAAG | ATAGAATTTA | TGTAATTATG | GTAAATTATG  | CCTATTTTTA | TTTTTTTTTT | 910500 |
| AATTAAATCT | TCTTTAGGGA | ATTCCCATCG | AGAAGTAGTT  | AATTTATTTT | GAAAACAAAA | 910560 |
| TAAATTAACG | CTACATATTA | ATAAAATAGC | ACTATACTTC  | ATTAGTATCA | TAGTAGTTGC | 910620 |
| TTAATATTAT | ATATAATAAT | ATTATATTAT | ACAAACAGTT  | TTTTAAACTA | TTATTAATTT | 910680 |
| GATTTAATTT | TTTTTATACT | ATTAAATTAT | ATTTA       |            |            | 910715 |



## (2) INFORMATION FOR SEQ ID NO: 2:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

|  |      |
|--|------|
| TAAATCCAAA CACTACAAGA TTCCATATAA CAAAAAAAAA TTTCAAAAAG AATGCTTTAA  | 60   |
| AATTAAGATT TTCTGACTTC TTAAAATCAA AAATTCAAAA TGGAAAAATT ATAAAAGCTT  | 120  |
| TCCAAATGAA AAATGAAAGA ATCATTCTCTC TTGAGATTTT GCAAAAAGAT ATGATTATCT | 180  |
| TATTTATTAA ATTGTGGCCA TCCTCGCCCA ATATAATAGC TACAAATTCA AACTTTAAAA  | 240  |
| TACTAGATGC ATATTACAGA AGGCCAAAAA TAAAAGAAAC AACAGGTGAA ATCTTTTTAA  | 300  |
| AAGCTAAAGA AATACATGAA AGCAATAAAA TGTCTGATAA AAAAATTATG GAACTAAAGG  | 360  |
| AAGAATATAA TAATACCAGC TATACATCTT ATTCTGAATT TCTTGAAAAT TACTACGAAT  | 420  |
| CGCTTAATGA TCAAATTAAA AAAACCAATA TAAAAGAATT GCTTATTGAA AAATATAAAA  | 480  |
| AAGAGTTAAT TGTTTTAGAA AAAAGAATAG ACTCTTTAAA ACAACAAATT AAAGTCTTG   | 540  |
| AAAACATTGA AAACGAAAAG GAAAAAGGCG AATTGATTTT ATTAAATATT AACAAAATAC  | 600  |
| AAAAAGGGAT TAAAGAAATA AACCTCTTAA ATTATAAAGA AGAAAAAATT AAAATATCCT  | 660  |
| TAAACCAATC ATTATCACCA AAAGAAAATG CCTTGCAATA TTTTAAAGCA TATAAAAAGG  | 720  |
| GCAAAAATTC TTTCAAAACC ATACAAAATC AATTAAAAGA TAATCTAGAT AAATTTAATT  | 780  |
| TAATTCAATC AAAAATAACA ATGTTAAAAG TCGAAAATTT AATTCGGGAA GAAGAATATA  | 840  |
| ATCAAGAAAA AACTGCTATT AAAGAAAAAG AAAAAACGCC AAAAATAGGC TTGCATTTTA  | 900  |
| CCTATTGTGG ATTTGAAATT CTTATTGGAA GAAACGCAAA AGAAAACGAT AAACTTTTAA  | 960  |
| GACATTGCGT TAAAGGAAAT GACTATTGGC TTCATACAAG AGATTATCCT GGAGCTTATG  | 1020 |
| TTTTTATTAA AAATCAAAAA AATAAACTC CTAGCCTTGA TGTCTTTTAA GGTGCTGGTA   | 1080 |
| ATTTATGCGT ATTTTACACA AAATTAGCAA AAAATCGGG AAAAGCCGAT CTTTACTACA   | 1140 |
| CTCAAGTTAA AAATTTAAGA AGAGTTAAAA ATAAAAAGCT GGGCCTTGTA ATTCCAAAAG  | 1200 |
| CAGAAAAAAA TTTACATATT AAGCTAGATG AAAATCTAAT AAAAAAATA AAAAATCAAA   | 1260 |
| CCTAAACACT GCTTATAGCA AAGTAAAGTT TTGAATTTTT TACAAAATAT TGTTATTCAA  | 1320 |
| TGACAAAAAG CATAAAATTT ATAAAAGTGG AGGAAGAACT TTATGATTTC AAAGTTAACA  | 1380 |

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| AAAATTGTAG | CAACAATATC  | TGATCTTAGA | TGCGAACCAG | AACATATAAA  | AGATTTACAC  | 1440 |
| GATGCAGGGG | TAAATGTTAT  | AAGACTAAAT | ACTGCTCATC | AATCACACGA  | AGATACAATA  | 1500 |
| AAAGTAATAG | ACAATGTTAG  | AAAAATTTCA | AATAAAATAG | CTTTAATGAT  | TGATACAAAA  | 1560 |
| GGACCAGAAG | TTAGAACAGC  | AAATATTGAA | AATCCTATTA | TTGTAAAAAC  | TGGAGACAAG  | 1620 |
| GTAATCATTT | CAACCTCGCC  | TATTAATGAG | CCTAATAACT | TTCAAACCAA  | TTATGATGGA  | 1680 |
| TTTGTTAAAG | AAGTACCCCA  | AGGATCTAAA | GTGCTAATTG | ATGACGGTGA  | ACTTGAAATG  | 1740 |
| ACTGTTGTTG | CCAAATTGCC  | TGACAGATTA | ATTTGTGAAA | TTAAAAATGA  | CGGCCAAATT  | 1800 |
| AAAAATAAAA | AATCAATCAA  | TACCCCCGGA | ATTTCTCTTA | AGCTACAATC  | AGTAACCGAA  | 1860 |
| AAAGACAAAG | GATTTATTGA  | GCTTGCAGCA | AAATATAATG | TTGATTTTAT  | TGCCCATTTCG | 1920 |
| TTTGTAAGAC | ATTCCAAAGA  | CGTTCAAGAT | GTTCAAGAAA | TTTTAACTGC  | CTCTGGAAAT  | 1980 |
| CCTGATGTAA | AAATTATATC  | CAAAATCGAA | AATCAAGAGG | GAATTGACAA  | CATTGAAGAA  | 2040 |
| ATTGCAAAAG | CTTCTTACGG  | AATAATGGTT | GCAAGGGGAG | ACATGGGAGT  | TGAAATTCCT  | 2100 |
| GCAGAAGATG | TACCCATTGC  | TCAACTTAAA | ATAACACAAA | CCTGTATAAA  | GTATGGAATA  | 2160 |
| CCCGTGATTA | CAGCAACTCA  | AATGCTTCAT | ACAATGATTG | AAAATCCAAG  | ACCTACTAGA  | 2220 |
| GCAGAAGTGT | CTGACATCGC  | TAACGCTATT | TTAAACGGCA | CAGACGCAAT  | TATGTTATCC  | 2280 |
| GGAGAAACCG | CCTACGGGAA  | ATATCCAATT | GAAGCTGTAA | AAATGATGAC  | AAGCATTGCT  | 2340 |
| AAAAAAGTTG | AAAAACACAG  | AAAAATGACC | TTATATAAGG | ATGAACTTTT  | TTACGATAAA  | 2400 |
| AGTATCACAA | GAAACTATAT  | TATCAAATGT | GCAATTGATG | CCACAAAAC   | TATGGACATA  | 2460 |
| AAAGCAATTA | TTGTAGATTC  | TCTAAAAGGC | AAAACCGCAA | GAATAATGGC  | AACCTACAGA  | 2520 |
| GCAAGTGTTT | CATTATTTCAT | TACAACAAAT | AGCGAAAGAC | TAGCAAGAGA  | ATTAGCATTA  | 2580 |
| TCTTACGGGG | TTTATTCTAA  | TCTTGTAGAC | AATAATTTCA | AAAGAACTAC  | CGAATTTGTA  | 2640 |
| GTAACTTCTC | TTAAAATGTT  | AAAAGAACAA | GGTGTGTGTA | ATGACAAAGA  | TACTGTAATA  | 2700 |
| ATTATTTCTG | GAAATCCAAA  | TAGAAATATT | GAAAAAGGAA | CAGAATTTAT  | GGAAATAAAC  | 2760 |
| ACAGTAGAAG | ATGCAATCAA  | AGGACGAAAT | ATATAAAGCA | AGCTAGAAAC  | TCCTTG GTTG | 2820 |
| AAAACATATT | TTATTCAGAT  | AATACAAACG | ACTTGTCATT | TAAGTTGGAA  | GAAAAAAAAA  | 2880 |
| CTCACAAAGC | CCTCCTAACA  | AGTTATGGGA | GCTATGAGTT | TTTTTTAAAA  | AATGAATGCT  | 2940 |
| TGTTTTAAAA | AATAATATCA  | AATCAAAC   | ATAATGTATT | TATAATCTCT  | GAGGCCAAAA  | 3000 |
| GCAATTTTTT | AATTAATATA  | TCCAATCACA | ATGTGTGGAA | AATTTTTTAAT | AAAAATATTA  | 3060 |
| AAGTAAACCT | AAAGATATTA  | AAATTATTAA | AAACCTTAAA | TTTTATTAAAT | ATAGACGATA  | 3120 |
| AATTAATCGA | AAATGATCAT  | AAAATTGAAA | TTACATTGAA | TTTTATTAGC  | AACATAAAGG  | 3180 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| AAAACATAAA | AATAATTCCA | ATAATTTTTG | GAAAACTTG   | CAATAAACAT | TTACTAAAAT | 3240 |
| TTTGCGAGTT | TTTAAACCT  | TTTATAACA  | GAGAAGAAA   | TTCATTTATT | TTTCTATCTT | 3300 |
| GCTTTATTTC | AAAATCTACA | AATATAAAAA | AAGCCTTAAA  | GTTTGAAGAA | AATTTAAAGC | 3360 |
| ATATCCTTCT | TGAAAAAAAA | TTGCCTAATC | TTAACCTAAT  | ACTAGAAAAC | TATAAATCAA | 3420 |
| AAAAAATATT | TCCGGAAAAT | ATAAATGCAA | TCATGACCAT  | TTCAAGCCTT | TTTAAACATT | 3480 |
| TCGAATTTAC | AGACTCAAAA | ATAACATTTA | ACTCCCCAGA  | ATACTTGATA | TCAAACAGTA | 3540 |
| TTCTAATAAG | ATAAAATTAT | CAAAACTAAA | ATTTATAAAA  | AGTTTTCTAT | TTTTTTGCAG | 3600 |
| TTTTTCTTTA | AAAAAGCATC | AAGCCCTATC | TTTGAAATAC  | TTCTTAGCGC | ATTAGCAGAA | 3660 |
| ACCTTAATAC | TAACACTTCT | TCCAAGATTT | GGAATAAAAA  | ATTTTTTATT | TATTAAATTA | 3720 |
| ACCTTAAAGG | TTCTTTTGGT | TTTTACTCCA | ATATGTTGTC  | CAGCTCCACC | TTTTTTCTTG | 3780 |
| GCAAGCCCTT | TCCTTGGAAC | ATTGTTTCCA | AACATAGTTT  | TTTTTCCTGT | TATCTCACAC | 3840 |
| TTCCTAGCCA | TTTTAACACT | CCTTCAAATT | AAGATTTTTT  | CTCCAAATAT | AAATCCATTA | 3900 |
| ACTTTAAAAA | TAAAGCTAAA | CTACCCAAAA | TATTTTTTCAT | CATACCTCCA | AAGTTTAAAT | 3960 |
| TGTTTCCATA | GCTTTTAGCA | AGATCCATAT | CAAGCTCTTT  | CCAATTATAA | ATCAGCTCTC | 4020 |
| TTTCCAAAGA | GACTTTTGAA | TAGTCTGAAA | GACAATCTTG  | CAAACGCTGC | TCAATAGAAT | 4080 |
| ATATTTTGGA | ATAATATTCG | CTTGATATAG | CAAACGCCTT  | TTTATTAACA | TCTGCTATTA | 4140 |
| TATTTAACAA | CAATTTCTCC | GAAGATTTAT | CCCCCAAAGA  | AGCTCTGTGC | AATAATGCAT | 4200 |
| TTATTCTATT | GCCATAACCG | CCTTGTTCCC | CCAAATTAGA  | ATCAAAATCA | ATAAGACTTG | 4260 |
| CATAAATATT | AATCAAAGCA | TGCATGTCGT | TAGACATTTT  | TCTTGAAAGC | TCTATAAGCT | 4320 |
| TCCATTGTCC | TTTAATAATA | AGTAAATTAA | TAATATCATT  | AAGATCTTTT | TTAACAAAAT | 4380 |
| AAATAGTATA | TGTTCTCAAA | TAAACTAAAA | GTTGCAATA   | AATATACCCC | GTAGTGCTCA | 4440 |
| TAATTTTAGA | TACAATCTTT | TCATTCATTT | TTTCATTATA  | ATTATCCAAA | TTTAAAAAAG | 4500 |
| ATATTCCTGG | GAAAAGCTGC | TCGGCTAATA | TTTTAGATTT  | ATTATTTTTT | TGCAAACTT  | 4560 |
| TAATCTTTTC | AATTTCAGTG | GCAACATGCT | TAGTAAGATC  | ATTAAAAAAC | ATTCTTGCTA | 4620 |
| TTGGATTGGG | TTTTTGCCCA | ACAGAAATAG | GGAAATAATC  | TGGATCCCCA | CTAACATATC | 4680 |
| TTATTAGATA | TAAAATTTCT | TTACTCTTAT | TTATATCCAA  | AATAGAAGAA | ATAACCTTAA | 4740 |
| TCCATACATT | AGACTTAATA | GGAAAATCTT | CTTTATTCCC  | ATAAATTTCT | AAAATAATGT | 4800 |
| CATAAAGGTT | TTTCCAAATA | GAAATATTCT | TAATGCAAGA  | AATACATTCT | AACAAATCTT | 4860 |
| TAAGATCATC | TATAATAACT | CCACAACCTA | TAGAGCTGAA  | TCTAGGCCTA | TACACAAAAT | 4920 |

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|------------|------------|------------|------------|-------------|------------|------|
| CATCTTCTGG | AAGCAAGTTG | TCAAAATTTT | TAAGAACCAA | ATGATATTGA  | TATAAGACTA | 4980 |
| AATCAAAAAA | ATTATGCAAA | GCTTCATAAG | TTTCATCTAT | CAATTTAATT  | TGTTCTTGAG | 5040 |
| TTATGTTTTT | AAACAAATAA | GATAAATTAT | TATGTAAGTT | TTTAGGAAGA  | TCTGAGGCAA | 5100 |
| AATTTATGTT | ATCGCTTGCA | GAAAAAGAAT | AAATATAATC | TAAAGACTTC  | TTTTGGTTTT | 5160 |
| CATTTAAGTA | TTTTTCAACA | ACAAAATGAA | CAATTTTATT | AGAATTTTTA  | TATCTTTGTG | 5220 |
| CAAATGGCCT | TAAGGGAGAA | AAAATTTTAT | AAAAATTATA | AAGAAATCTA  | GAAAATTGAG | 5280 |
| GTAAAGCCTG | AATTTTTGAA | GCATTAAAAA | AATTACTTAC | TCTGCCTAAA  | CTAACTTTAA | 5340 |
| CTTCTTTTAA | CCTTTTTTGC | TTTATTTGCT | CAGAAGTAAG | TTCTTTATTA  | ATACTAAACA | 5400 |
| TAGAAAGTAT | AAAATCAAAT | AAACCCAAAT | TCATCATCCC | CCTAAAAGCT  | CTTAAGCCAC | 5460 |
| CTTACTCTAA | TTTCCAATTA | AGCATGGAAA | TTAATATAAC | TATAAAAAAT  | ATACATAATT | 5520 |
| TATTGTAAAA | TAAAAGAAAA | AACTTGAATA | ATTTTATGAG | AATAAAAAAT  | TTAATACTAA | 5580 |
| TAGCAATTTT | ATTAATTAGC | CCTAGCTGTT | CAACAAATAA | GAACATCGTT  | GTAATACTG  | 5640 |
| ACAATAAAAC | AATACCATTT | TATATAAATC | AATTTAATAT | AGAAAAATAA  | GCAAAATTTA | 5700 |
| TAATTAAGTT | TAGAAATAAT | ATTGATCTGC | AAACAATAGA | AAAAGAAAAAT | GCACAAATAA | 5760 |
| TTATTTCTAA | AAACATTGGT | AACACAAATA | TTGCTAACCA | TTTTAAATCT  | GTAAAAATCA | 5820 |
| ATTATAATCC | AGATTATCCT | ATCTTAAAGC | ATATTTTCAA | GCAATTTAAC  | TACAAAATTA | 5880 |
| TTCCATTGGG | CTTTGACATT | CCTATTTTAA | TCTATAAAAA | TACACATCAT  | ATTAAAAAAT | 5940 |
| ACATAAACAC | TAAATATCTA | AAAGAAGAAT | ACGAAAATTT | CATTAAAGAT  | GGAAAATTTT | 6000 |
| TTATATCGCC | TTATGTTTCT | GAAAATTTAT | TTTATGTGAT | TTCTCAAATA  | AATAATGTGA | 6060 |
| GATTTTCTTT | TGAAAAAAT  | AAATTAAATT | ATAATGAGAA | TCAAATTTTA  | AAAATGCTAG | 6120 |
| AATATTTCTC | ATCATTTTTA | AATACAAAAC | AAATGGACTT | GCAAAAAGAT  | TTCTTTAATA | 6180 |
| AATACGGCTA | CCTAAAGTTA | AATAAAATAT | TGCTTAATAA | AAAATCTCTT  | TTAATAGCAG | 6240 |
| GATTGAGCGA | TATAACCTTC | TACAATAGCT | TAAGCGAACA | AGAGAAGTCA  | CAAATAAAAT | 6300 |
| TTTCCTATTT | AATAAACGAT | AACAATGAAA | TTGTTATCTC | AAACCCAAAT  | TTTATTGGCA | 6360 |
| TTTTAGAAAC | ATCTGTTTTA | ACTAAAAAAT | TTATCAACTG | GATATTGTAT  | AAAAAACTC  | 6420 |
| AAAAAACCTT | AATTGGATTT | AACAATCAAT | CCCAATCAAA | TATATGTTTT  | GGATTTGCCA | 6480 |
| ATGGTTTTAC | CCCTTACAAA | GAATTAAATT | TAAAAATAAA | ACATTCAATT  | GATGGAATAT | 6540 |
| CTCCTTTTAT | TATTGACGAA | ACTCAAATCA | ATAGCCATTC | CTATGTATTA  | AGCAAAAAAA | 6600 |
| CAATTGAAAA | AGAAAACTTA | CTAATAAATG | AATGGTTTTT | CTCTAAAGCT  | AATAATCTAA | 6660 |
| AAAAAAATAA | AAATTAAATA | AGTCTTTCCT | TGTAATTCAA | AGTAATTATT  | TTAAAAATAA | 6720 |

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| GAAAAAACAA | TAATGCAGAA | AGAATAGCTA | AAGATACGTA  | AACGCTATTA | AAAACATATA | 6780 |
| TAAGAAGAGA | GGTAAAAACA | ATTAGAAAAT | AATTTACAAA  | AAGACAAGTA | ATCCCTGAGA | 6840 |
| AAATAGCTAT | CATTAATGAA | ACTAGAAAAA | TCATAGCCTT  | GGAATTGAAA | TTAAATTCTA | 6900 |
| TTTTAGAAAA | CAAAGAGATA | AAAAATGCCC | CTATTAAAAAC | TAGCGAAATA | GGAGAAATCA | 6960 |
| GCAAAACCAA | ACTTAAGGAA | AAAGTATTAA | TTAATTTCAA  | ATTTAATATA | GCAACCCTAT | 7020 |
| GAAAAGCGCT | TGGCAAATTT | TGAATTTTTA | AAAAAAATCC  | AAACTCAGTA | AAATTTGAAA | 7080 |
| ATAAAGCTAA | ATTTTCTACA | TTCTCATTA  | TTTTGACAAC  | CTCTAAAACA | TTTGTATCAA | 7140 |
| AGCTATCCGT | AGACACAAAG | ACCTTGGTAA | GAGTAATTTT  | GCTCTGCTCA | TTGTCTTTAT | 7200 |
| CTAAAATATT | TTGATACACA | GAATTACCCT | TCAAAGTAGC  | AAATGGAATT | TTAATATGTA | 7260 |
| ATATAACATT | CCCTGTATTA | TTAAATCTAA | TAAGTTCAAA  | ATTTTTTATT | ATTTTAGAAT | 7320 |
| GATTGTTAAA | GGCCACAAC  | TTTTGCATAT | AAATATAATC  | ATAAAAACCT | CTCTTAGAAT | 7380 |
| CTGGTTGCAA | TAAAAATACA | TCGTTTATTC | CGTAATATTC  | AAAATATTTT | TCAATCTCAT | 7440 |
| CAAAAAAAG  | ATATCTTTTC | CTAAGCTTTT | CAAGAGATTT  | ATTTTTATAA | TTCAAAATTT | 7500 |
| CATTATCGCT | GGGCAATAAC | TTATAAAGAT | TCGAAAACCC  | GTAATAAGCT | AATTTAAATT | 7560 |
| TTTCAGTATT | AAGAAACAAA | AAATTTTTTT | GCTTTTCTTC  | GGAAATCAAC | TGCATTTTTT | 7620 |
| CTTTTTCAAA | ATTCCTGTTT | TCATTAATAA | ACTTTAAAGT  | CAAATTTAAA | AGCACAACAA | 7680 |
| AATTATCGTC | TTTTGTTGCA | ACATAAGCAA | TATAAGCAAA  | ATAATTGGCT | GTATAATAAT | 7740 |
| CATTTTTAGA | AATAAATTCA | TTGACAATAT | TAAAAAATC   | TTGCTTTTTA | AGACTTTGCA | 7800 |
| AAGGATATTT | TGAAAAAGTT | TTTTTAACTT | TTTCTAAATC  | AACGTCATAA | CTTGGAATTT | 7860 |
| TACTATATTC | AGATTTCACT | AAATAATAAT | TTGTTAAAAG  | CTCTTCATTA | TTTACATAAA | 7920 |
| TAATTCGCAT | TTTATCATAT | ATTCTAATCA | AATTTTCAAG  | ATGCTTTCTC | TTTTGCTTCA | 7980 |
| TTGAATCTGT | CAAATCAGAA | GATAAAAAAA | ATCTATTTGC  | AGCCAAACTT | ATATCTATAT | 8040 |
| GTTTAATTTT | AAGAGATATT | TCATTTGCTT | CACTTTCAAG  | AAGATTATAT | CTATCATAAC | 8100 |
| TAAACTTATA | CTCATTTCTC | TGAGCAATTA | TATAAGGCAA  | AATTAAATTA | AATATAAAAG | 8160 |
| TAAAAAAGAG | TCCTATAATA | AAAAATAATA | GTAAAAATGC  | ATAAAGCCTG | GAAAATAAAT | 8220 |
| ATCCATTATG | CGATTTTAAA | TGAATCTTTA | TTTCTTGCTG  | AACAAAAAAA | GCAAAGTAAA | 8280 |
| TACAAACAAT | AAAAATAAAA | AACCCAAAAA | AATACTTATA  | AAAAAGCAAA | ATAGAATCAA | 8340 |
| AAAAAGTTGC | TATTAATTTA | TGCTTTTCTA | AAAAATTTTC  | TCCAAAAAAA | TATGAATAAC | 8400 |
| TAAAGAGCAA | ACCTAGAAAA | AAACACATAA | AAATAATAAA  | ATTGCTCAAA | AATGCATATA | 8460 |

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| TTTCTCTTTT | CATAAGCTTT  | AAGAATTAAC | TACCCTTATA | TAAATTATTA  | TCCAAATCTT | 8520  |
| TGCTGATTTT | AATATATTCT  | GAAACAAAAC | CAAATAAATA | GGTAGAAAAA  | AAAGTTAAAA | 8580  |
| CACAAAAAAT | AAAAGGAATA  | AAATCAGAGA | TCATGCTCTT | TCCTATTATT  | ACATTGTAAA | 8640  |
| TCTTGGGAAA | CTCAATTGAA  | TAAACATTAT | AAATTTTAA  | AAAAAGTATA  | ATAAAAATAG | 8700  |
| GATAAAGAAA | TATTGCAAAA  | CTATTTGAAA | AAATAAGATT | AAAAACATAA  | GAAAAAGCAA | 8760  |
| ATAACAATAA | AGAAATTCCC  | AATATATTAA | AAATTAAATT | TAAATAATTT  | AGCGAGAGTA | 8820  |
| GAAAATTATT | CAAAATTTTT  | AAATCTCTGA | AAAGAAAATC | AACAAAATTA  | TTATAAATCT | 8880  |
| TTTGCTCTAA | AAAATTATTC  | TCAACAAAAT | CAATCTTACT | AGAATTGGAA  | ATATTTGATT | 8940  |
| GGTAAGAAAA | ACCTTTATCC  | CCTTTGTCAT | TCTCCGAAAC | GATTAAAAC   | CCATTAAAAC | 9000  |
| CATAAATTCT | AGGCCTATTA  | CTAGAAAATA | TTATCTTATC | ATTTAAAAAA  | TGCACAATCT | 9060  |
| CATCTTTAAG | GATAAAATTA  | TCATTTCTAT | TGCTATTAAT | ATAGTAAGAA  | TGAAAACAT  | 9120  |
| GACTAACTAA | AAATCCTAAA  | TAAGAAAACA | ATAAAATAAG | AACAAAGATA  | ATACAATAAA | 9180  |
| AATAGAAAGA | CTCTCTAGAT  | GAATTTAAAA | CTATTCCATA | AAAGGGACAA  | GATATTCTCA | 9240  |
| TAAAAGTAAC | AACAAGGGAC  | AAAGGAAAAG | AATAAATATA | AGCATTTGTAA | TAAAGACTAT | 9300  |
| AGCTAAAAAT | AGAAAAATTA  | AAATACAAAA | ACTTATATTT | CAAATAAAAT  | GTACATATAA | 9360  |
| ACATTAAAGA | AAAAAGGCAA  | AATATTAAGA | TAAACCTACA | AATTATTAAA  | AAGATCAATC | 9420  |
| TTAAAGAATC | AAACACAGCA  | AATCCTCCCC | CCTCGAAAAT | TGAAAAAACT  | TTAAGCCTTT | 9480  |
| TTGTTATCGA | CCAAAATATT  | TTTAATCTTC | TTTTTAGCCT | CTTCAAAGCT  | AATTTGCAAA | 9540  |
| GCTAAGCTAA | TCTCGTGCTC  | CAATATTAAC | TCAAAATCAT | TCAAAATCCT  | TTTTTCGTAA | 9600  |
| AAAGGAAGTT | CTTTTTGAGT  | AGATTTTTTA | TATAAAAACT | TATATAACTT  | TGCTGTATCT | 9660  |
| AAAATATCGC | TTTTTTTATA  | AAATTCATGA | CCACCATCTT | TTATTTTTTTT | TGAATCTATT | 9720  |
| TGCCCTTCAA | ACTCTTTAAT  | AACATCAAAA | ACTTCTTCTA | CCTTTTCCCT  | GCTAACCAAA | 9780  |
| GCTCTAATTC | CAAAATCATC  | AACTTTAGCA | ACAGGAACCA | TAAAAATCAT  | ATCATTAAT  | 9840  |
| GGAAATGTA  | TTTCATAATA  | ATCAATAATC | TCACCATTAA | ACTCTTTAGT  | CCTAATATCC | 9900  |
| TTAATCGTAC | CTACTCCATG  | CATTGGATAA | ACTACTGATT | GATTTAGCAA  | AAATGCCATA | 9960  |
| CTTACCTCAT | AAAAATATAGA | TAGTTAAAT  | TTAAAAGTTC | ATAAAAAAAC  | ACTTAAATTG | 10020 |
| GTTCTAATAT | TAAATTTATT  | TTCATAAAAT | AAATTTTCAA | GATATCTATC  | ATTACAAAAG | 10080 |
| CTTATTATTA | CACTAGGAGT  | AAGTTTATTA | ATATTTGCAA | AAAACATTTT  | TTTATTTCTC | 10140 |
| TTTACAGCTT | TTAAATCATA  | ATACCCAATA | AAACTAATTT | CTTTATGAGA  | TTCTTTCAAT | 10200 |
| CTTAAAAATT | TTTTCTTTGA  | AATCACTTTA | TCCTTGTCAA | TAATATAACA  | TGTTTTATGG | 10260 |

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|------------|------------|------------|-------------|------------|-------------|-------|
| GCATTTTCTA | GTATTTCCAT | TAAAATGAGA | AGAACTGTAT  | TTGAATCATA | ACAATCAATA  | 10320 |
| TTAACTCTTT | TAAAAATCCT | ATAAAAAAAT | CTTACAATTT  | TAGAATTTAA | AAAAACAAGA  | 10380 |
| GAAGAATTTT | TAATGTGATT | TCTAAACTTT | TTAAAAATCA  | AAGCCTTTAG | AAAAGCTTTA  | 10440 |
| AGCCCGATAA | AAATTACTAT | TGGAATGATA | AGGATGCCCT  | GAAAGATAGA | CAAATCTGCT  | 10500 |
| TATAAGCTGC | TGCGACTATC | AAAAACATCT | ATAGGCACAC  | CTAAAAAATA | AAATCTGTCT  | 10560 |
| GGTTTTGAAT | ATATGTCTTT | TAAATTAGCC | ATTATAATCC  | TCTAACAATG | CCTTAAAATA  | 10620 |
| AGCAAGCGAA | TAAATAATAG | CCGTATCTGC | TCGTAAAATT  | GGAGTGTTAA | ACCTTACAAA  | 10680 |
| ATTAAAGCCT | TTCTCCTTGA | AAAAGACAAT | TTCGGACTCC  | GAAAAGCATC | CTTCAGGACC  | 10740 |
| TATTATAATT | CCAATTTTGC | CAAAATTGTC | AAAACCTTCA  | TTCTTGCTTA | AAATCATTTCC | 10800 |
| ACTTGGATGA | GCAACATAAT | ATCTGGTAGT | ACAAAAAGAA  | TAAGGTAAAT | AAAAAAAATT  | 10860 |
| ATTATAAAAA | TTAATTTTAG | GAACAATTTT | ATTACCACTT  | TGCTTTAAGG | CCTCATCTAT  | 10920 |
| TATTTTTGAA | AATCTTAAAA | TTTTGGCAGA | TGCATTGTTT  | ATATCTATTT | TCGACACAGA  | 10980 |
| ACGATCCGCA | TTAATAATAT | TGATTTCTGA | AACTCCAATC  | TCAACAACCT | GTCTTAACAC  | 11040 |
| CAAATCTATT | TTTCTGCCCT | TTAAACTAGA | AATAAAAAATA | CTTATCTCAA | AATTATTTTTT | 11100 |
| TTCAATTTTA | TCTATTTTAT | TGGTAGTAAA | CTTAATAAAA  | TTACTACCAA | TCTTTACTAT  | 11160 |
| TTCTGAGGCC | CTTAATTCTT | TATCTTTTAA | AAGAATGTTC  | AGCTTATCAC | CCTTTTTAAG  | 11220 |
| TCGTCTTACA | TTAACAAGAT | GGTGATATAT | TTTTGCATCT  | TTAACAATAA | TAAAATTACC  | 11280 |
| TGCTAAACAA | TTCTCATCCA | AAACAATTTG | CTTCACAATT  | TAATTACCTA | ATTTAGACAA  | 11340 |
| ATACTCACAA | GCTGTTTTTA | AACTTTGTC  | ATAATGTAGA  | TTATAAATTG | GCAATTCCTT  | 11400 |
| ATTATTGTCC | TGATAGTAAT | TAAAAACAC  | ATACTTGCCCT | AAAAATTCTT | TATCAATTTT  | 11460 |
| ATATTTTGGA | TTTTCTTTTA | CAAGATTCTC | AACAAAAAAA  | TCAATCTCTT | GTTCCGTAAT  | 11520 |
| GAATTTTTTA | CCCTTCAAAA | AACCTTCTAT | CAGCTTTTTTA | TCAAAAATTT | CTTTATATAT  | 11580 |
| TAATGCCCTC | TCCTCAGAAA | AATCTGGAGA | TTTTATTTCC  | AAATCAGGCT | CAATCCAAC   | 11640 |
| CTTATGAATA | CTCTTTCCAG | ATGGAGTATA | ATACTTTGAG  | CTTGTAATTT | TAAATCCACC  | 11700 |
| AGTATAAAAA | GGAACACAT  | GCTGAATAAG | CCCCTTGCCA  | TAAGACTTTT | CCCCTATAAT  | 11760 |
| GTATGCTCTC | TTATTGTCTT | TTAAGGCTCC | TACAAAAACC  | TCTGATGCTG | AGGCTGATGA  | 11820 |
| TCTGTCTATT | AAAGCAACAA | TTTTTATATT | TGAAGGCAAA  | ACTTGTTTTG | AGCTTGCCCT  | 11880 |
| ATAATCAATA | GGCTTGCTAG | AATTTCTTGA | TTTTGTGGAA  | ACAATAATTC | CTTTAGATAA  | 11940 |
| AATATCATCC | GCCATTTTTA | TAGCTGCCTG | AAAATATCCT  | CCGGTATTAA | GCCTTAAATC  | 12000 |

|            |            |            |            |            |            |       |
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| TAAAATTAAA | GATTTAATAT | TTTTATTCTT | AAGATTATCT | AAAGCTTTTC | TAAAATCTAC | 12060 |
| AGAGGTGTGT | GGATTAAAGC | TTACTATTCT | TATATAGCCA | ATATCTGAAT | TAATAACGTC | 12120 |
| ATACTTGATT | GTTTGTATTT | CTATCTTCTC | TCTTGTAAGT | TCAAAATCCA | ATGTTAAATT | 12180 |
| TTTTCCCCTA | AGAATAGATA | CTTTAACTTT | TGTGCCTTCT | TTACCTTTTA | AAAGATCAAC | 12240 |
| AACTTGATCT | ACTTCCATAG | AATAAACACT | CTTGCCATCA | ACAGCGGTAA | TACAATCTCC | 12300 |
| AGATTTAATT | CCAGCCTTAT | AAGCCGGACC | TCCTTCAAAA | GGCGTAACAA | TAGAAACACA | 12360 |
| AGCACTATTA | GGATCAAAAT | CTTTTGCCTT | GTCTTGCTTA | TCTTGGGAAT | GCATTTTTTT | 12420 |
| TATTATAGAA | ATTCCAATGC | CAACATAATC | TCCTACTGTT | GTTTTTGAAA | TTTCTTCTAA | 12480 |
| ATCTTTTTTT | GTCAAATATT | GAGAATAAGG | ATCGCCTAGG | GATTGAAATA | TTCTTTTTTA | 12540 |
| AGCACCTTCA | AAAATTACTT | CATCACTTAC | AGGATCAACA | TAATTTTCTT | TTACAAATTC | 12600 |
| AAAAGCTTGA | ATCATCATCT | GCTCATAATT | TGATCTTGAT | AACTTATTAT | TAGATTCATC | 12660 |
| AAAAGCAAAA | ATAGATTCAA | CAATTACTAA | AGAGCTTATA | CCCAGAGTCA | ATAAAAAATA | 12720 |
| TACACATATT | AAAAATTTAT | TTTTCATTTA | TTCAATCCTA | ATGCAAAAAT | TAAAACTTGA | 12780 |
| TTTTATTTC  | ATAATATAAT | ATTTTAAAC  | TATGTTAAAC | TCACATCCTA | AAAAAACACA | 12840 |
| AAGCCTTTAC | AGAGCAGGAC | TTGTTGTTTT | ACAAATTACT | GAAAGCCTTT | TAATCTTAGC | 12900 |
| CTTATTATAT | CAAGCCATTA | ATAAATTAAT | TTTCATTAAT | AATTACTCCA | TAAAGTTTAT | 12960 |
| GTTAACATTT | ATCTTATACT | CACCTGAATT | TTTCATGGCC | AATTTAACAA | CCTATTACTT | 13020 |
| TATCTACGAA | AAATTTAAAA | TTCTTCACAG | CATTATAGTA | ATAACTAAAT | TATTCCAAAT | 13080 |
| AATATTAACA | TTATTATTAT | TCATCTTGGG | ATTTATTTTT | AAAATATACG | TCTATCAAAC | 13140 |
| CTCTCTAGCC | ATAATTTTAG | GAATTACAGT | AGTTTACCTA | GTATTTAATG | TAACAATATT | 13200 |
| AGTGCTAATT | AAAGCAAAAA | TAAAAAACCT | GGAGTAAAGC | TTGATTATTA | TTCTGTAGC  | 13260 |
| CAGTGGTAAG | GGGGGAGTTG | GCAAATCTCT | TTTTTCAACA | AACATAGCAA | TTTGCCTGGC | 13320 |
| AAACGAAGGA | AAAAGCGTAT | TGCTTGTTGA | TCTTGACCTC | GGAGCATCTA | ATTTGCACTC | 13380 |
| AATGTAAAC  | ATTATACCTA | AAAAAAGTAT | AGGAACATTT | TTAAAAACAA | GGATTAATTT | 13440 |
| CTCAGACATC | ATTATTCAAT | CTGGAATTAA | AAATCTAAAC | TTCAATGCAG | GAGATTCTGA | 13500 |
| CATTCCAGAA | CTTGCTAATA | TAGCTGCTTC | CCAAAAAAA  | ATCATAATAA | AAAATTTAAA | 13560 |
| ATCTTTAAAA | TATGATTACT | TAGTGATTGA | TCTTGGAGCA | GGAACAGCTT | TTAATATTAT | 13620 |
| AGACTTTTTT | TTAATGTCAA | AAAGAGGAGT | AATAGTAACA | ACACCAACAG | TAACAGCTAC | 13680 |
| AATGAATGCA | TATTTATTTT | TTAAAAATAT | AATATTTAGA | TTGTTATCAA | GTGTGTTTAA | 13740 |
| AAGAGGAACA | AAAGGAAATG | AAATTCTCAG | AACAATAAAA | CAAATTTCAA | TCGATCTTCA | 13800 |



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| AAGGGTTTAT ATACCTAATT TGTTGTTAAA ACTTGAAAGC GAAGATCCTG AAAATTATTC  | 13860 |
| TAAATTTAAC AAATTGTTTA GGACAATTAG CCCTTTTCATG ATATTTAATA TGCTCAAAGC | 13920 |
| TCCCAAAGAC ATTGAAAAAA CCGAAAAAAT AATAAAATCA GCAAAAAACT ATTTAAGCAT  | 13980 |
| AAATTTACAA AGTATTGGAG CAATCTATAA AGATGAAATA GTTGATCAGG CTTTAAACAG  | 14040 |
| CAAAATACCC ATCACTATAT ACAAACCTAC AAGCTCAACT TCTAAAAGTA TAAAAAAAAT  | 14100 |
| TGCAAAAAAA TTAATCGAAA TTGAAGATTT AACAAATGAT GCCGAGCTTT TAAACGAAGA  | 14160 |
| AGATTTAAAT GAAAGTTATG ATTTTGTACT AAGAGAGGCT CAAGAAGAAT ATATTGAAAA  | 14220 |
| AATTGAATAC CTTGAATCAT TGATAAAAAA CAAAACAATA GAAAGTAGTG AAATTATTGA  | 14280 |
| TATAATAAAA TCTCAGAAAA GAGAAATCGA AACCTTAAGA AAGCAAAATA TGTTATTTAA  | 14340 |
| AAAAAAGCTT GTTGAAAAGC TTGAAAAGGC TAAGGAGGTC TAATGCCAAA TTACATAAAT  | 14400 |
| TACCCAAGTT GGTACATCC TGAAGTAATT CAAGGTATAC CAATTACATG GTATAGCCTA   | 14460 |
| TCTTATATTT TAATCATACT AATCTCTTAT AAGTTTATTT GGTATCAAAT ACAATCAGAC  | 14520 |
| AACGTTGATA TTAAAAAAGA AGATTATGAA ATATTCATGT TCTCACTTGT ACTTGGAGCA  | 14580 |
| ATTTTAGGAG GCAGACTAGC ATCTACCTTA GTTTACGACA AATCGGGAAT TTATTATTCT  | 14640 |
| AATCCCTGGC TAATCCTTTT GCCATTCGAC CAGCATTGGA ATTTTACAGG CTTTAGAGGT  | 14700 |
| ATGGCCATCC ATGGTGGTTT TTTGGGGGCA ATAATTGCTC CTTTAATAAC AATAAATACA  | 14760 |
| AATCTCAAAA ATACAAATGT TCAAAAATAT TTTCTAAAAC TAACAGACTA TGGATCAATA  | 14820 |
| GCTTTTTCTT CTGGCTACAT ACTTGGAAGA CTTGCTAATT TCGCAAATGC AGAACTTTAT  | 14880 |
| GGAAGAGTAA TGAAAGGGGG AATAATATTC CCTAATGCAG AACCATTGTA CACAAATATA  | 14940 |
| CCGGGTGTAA AAGAATTTGC ATCATCAGTA GGGCTTGAAA TTTCGCCTCA TGACCTGCTA  | 15000 |
| ATCAACCTTC CAAGAATACC TTCTCAACTT ATTGAAGGAT TTTTCGAAGG ACCTGTAACT  | 15060 |
| TTTCTGTTAC TATGGTTTTT ATTTAAAAAA ATCAAAAAAT ATGATGGATT TATTTTTGGT  | 15120 |
| GTATATGTAA TGCTTTACGC TTTTTCAGA TTCTTTATTG AATATTTAAG AGAACCGGAC   | 15180 |
| AAAGAACTTG GATTTATAAT AACCTACAAG CCAATTACAA GCCTGTCCGA ATTTTCTTTT  | 15240 |
| TTAAACATAT CAATGGGACA AATTCTCTCG CTAACGCTGA TGCTCTCAGG ATTAATCTGG  | 15300 |
| ATAATAGTCA CTAAAAAAT TGCAGATAAA AAAATAAAAA ATAACACCAA CTTGGCATAAC  | 15360 |
| AAAAATTAAA ATAAGAGCAA GCCAATAAAA TGAACAAAGT CAATAATTAT CAAAATATAA  | 15420 |
| ATTCAGTTAT AATCTCTAAA AAAGAAGTTG GACTTAGAGA TCTCATAAAG CTAAATCTA   | 15480 |
| TTTTTAACTT AATTCAAATC GTAAATCTG AAAAAGCTTT ATACAGCGAA TATGTAAAAC   | 15540 |

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| AAAATAATAT TAAATTCGCT ATTATTTATA ATTATGAAAA ACCAATAGAT TTTTCAATAA  | 15600 |
| ACATTGCAAA CGAATTAAAA AATGCAAACA AAATCCATTC TATCATAATT AGCAAAGAAA  | 15660 |
| AATTTGATGA GGAATATTTA AACTTGATC ACATAGAAAT AATAAAAGAT ATAAGCGAAT   | 15720 |
| TAGAATATAA GCAAAGCTTA ATACATCAAA AAAAATTATT TTGCGACAAT AAAAACACAA  | 15780 |
| CTCTGGATTT CTTTTTAAAT TTATCAGAAC TCATAAAGA AATAGTAATC ATCACAAACA   | 15840 |
| CTAAAAATGA AATTATTTAT ATCAATGAAA AAGGTAGTAA AAATCTTAAT CTTCCAATGA  | 15900 |
| AAACCTCTGG AAATATAATC AAAGTAACCG ACATAGATAT CAGAGATTGG GAAAAGCTAG  | 15960 |
| AAAAAATAAA TTTAAGTTAT CACACAAATT CTATTCCTGA ATTTAAAAAT ATATTAATAA  | 16020 |
| CTGATTGTCT TTTAACTTTA AAAAATAATA AAAAACTACA TGTGGATATA TTTATTAGCA  | 16080 |
| CAATTGCTCA AAACAATATC GATAAATTAA TAACAATTAA AGAAATATCA AACTCTAATA  | 16140 |
| AAATAGAAAA CTATAAATAT CTAGAAATTA TTGATTTCGCA AGACGAGATT CAAAATGCCA | 16200 |
| AAGAAATTGA AAAATTACTA GTAAACCATA TGGATATTTA CAAAAAAAAA AGCATATATT  | 16260 |
| TACTTAATTT AGACGTATCC CTAACAGCAG AATATGAATA CAAAGAAGAT CAAGAAAAAC  | 16320 |
| TTAATGCAAA AATACTTAAA ATAATGTATT CAAAAATAAT GTCATTATAC TCTGAATATA  | 16380 |
| TTTTTAAGTT AAAACACAAC AATTTAATAG TAATCATAAG CACAAGTGGC GGAGAAAAGC  | 16440 |
| GAATAATCTC AATTGCCAAA AAAATCAAAA AAACAATTGC TCTGGCATT TAAAAAGAAG   | 16500 |
| ATATTATTAT ATTCAAGTTC AACATTGGAA TAATAGAGGT AAATTTAAAA GAAAACCTAG  | 16560 |
| AATTCAAAAT CCCCAAATTA ATGATGGCTA CAAAAATATC ATCGGAATAC AAAGAATCTA  | 16620 |
| ATCCCACTAT ATACAAAGAA GAACTACCAG AAGCGGTGAT TTTAAAAAAT CAAAACAAAA  | 16680 |
| TTTTTCAATA TATACTCAAA GCAATAAAAA ATGATTTTTT TACTCTTTAT TATCAAAAAA  | 16740 |
| TAAATCCTCT TAAAAAGAAC TTAAAGCCCA AAATAGAAAT CTTGACAAGA CTTTTTGACC  | 16800 |
| ACATGGGCAA ACCAATTCCA AACAATCAAA TTTTAACTT AATAGACAAA TATAATTTAA   | 16860 |
| CTGTTGAGGT TGATACATTG GTGGTTAAAA AGGCTTTAAG AGAATACAAA AGCTTTGTAT  | 16920 |
| CAAAAAATGG AATTCACATT TTCTCAATTA ACATATCTCC TTATTCACTA AAATCCCAAA  | 16980 |
| ACTTTCGAAT CTTTTTAAGA GATACTTTAT TGAAAAGCCA AATCCCACTT CAAAATATAT  | 17040 |
| GCTTGGAAT AACAGAACT GGAATTCCTG AAAACTTTGA GATAATAAAC AAATATTTTC    | 17100 |
| AAGAATTAAA AAGTTTGGGA ATCAAGCTAG CACTTGATGA CTTTGGAAGC GGACATACAT  | 17160 |
| CACTCTCATA TATTAAAAACA CTACCAATAG ACTTACTTAA AATAGACGGA TCTTTCATAA | 17220 |
| AAGCAATAAA CTCTAGTGAA ATAGATTTTG TAATAATAAA ATCTATTAAA AAAATAGCAG  | 17280 |
| ATACAAAAAA TATAAAAATT ATTGCCGAAT TTGTGTATAA TGAGGAAATA TTAACAAAAA  | 17340 |

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|-------------|------------|------------|-------------|-------------|------------|-------|
| TAATTGAACT  | AGAAATAGAC | TATGGGCAAG | GATTTTTATG  | GCACAAACCA  | GAACCAATAT | 17400 |
| AAATTCCTAAA | AAAGTGAAAT | CTAAAAATAT | ACTTATGCCT  | AAATTTTATT  | AAATTTCAAC | 17460 |
| AAAAATTATT  | TTACATTGAA | AAAGGAATAA | AATTAATGGA  | AAAAAAAATA  | GCATTAATTG | 17520 |
| CACACGATAA  | AAAAAAGGAA | GATTTGGTAA | ATTTTGTCAA  | ACAAAACCTAT | CTCTTCTTAT | 17580 |
| CTAAATTCAA  | GCTTATTGCA | ACAGGAACAA | CGGGGTCTAA  | AATCCAACAA  | GCTACCGATC | 17640 |
| TTACGATTTT  | TAAATATAAA | TCAGGCCCTA | TGGGAGGAGA  | TCAACAAATT  | GGAGCTGAAG | 17700 |
| TAGCTGAAGG  | AAATATCTTA | GCTATATTTT | TCTTTAGGGA  | TCCCCTAACA  | AGCCAGCCTC | 17760 |
| ACGAACCAGA  | TGTGTCAGCT | CTTATTAGGC | TTTGCGATGT  | ACATAAAATA  | CCGCTTGCAA | 17820 |
| CCAACGTAAA  | AACAGCAGAA | ATTTTAATAA | AAGGACTTGA  | GAGCTTGATT  | TTTTAAAATA | 17880 |
| GGCTTTAATT  | TAGATTAAAG | CCTATAAAAT | CAAAAATATA  | AATTAATTCG  | TTAACATAGG | 17940 |
| TGAAATTTTT  | TCAACGCCGT | CGATAATGTA | ATTAACAGAT  | TCAAGGAAGG  | TCTTGGCATC | 18000 |
| TGAATTATTC  | TCATCAACTG | TAATTTCCAA | TTTTGAATTT  | TTAATATTAA  | GATCTTTAAA | 18060 |
| AGTACCAATA  | AGATCACTTT | TAGCGCCATG | TAAATTGCTA  | TTTATAATCT  | TTTTAAAGTC | 18120 |
| AGGGGTAATC  | CCAACAAAAA | TAAAGGCTTC | TTTTCCAGAG  | ATACTAATTG  | GAGCCTCTCC | 18180 |
| TGCATAAACA  | TTGTCATAAA | AATAAACTAT | TAACTTTGCA  | TTCTCTTTTG  | AGGGTATTGT | 18240 |
| TTGAAAATGT  | CCATCTTCTT | CAGAAAAATA | AAAAACCTTT  | ATATTTTTTC  | CCAAACTTTT | 18300 |
| TCGATCCTTT  | TTTGAATGAA | CTACTCCCAT | AGCGTGAAAA  | ACGTGCCCAA  | TAGTATGTTC | 18360 |
| ATCTATTTTA  | GAATCATCAG | GCTTAGAAGA | GTTCTCCGCT  | TCTTGCTCCT  | CAACATATTC | 18420 |
| ATTTGAGCTA  | TCTTTTGAAG | TACAAGCAAT | TACTAAAAAA  | ATTAAAAACA  | ATGACAAATA | 18480 |
| GTTTTTAAAA  | AAACCATTTT | TATACATAAA | AATTCTCCCT  | TATAATTTAT  | TAATCATATT | 18540 |
| AAAATTAAAA  | GTAAGTTTAC | AATAAATAAT | TTATTTTGTA  | CACACTTTAA  | AAACAATTAA | 18600 |
| AATGTTAAAA  | TGAAACAGGA | GGTCTTATTA | ATATGAAAAA  | ACAAAATCCA  | TGGATATATT | 18660 |
| TAAATGAAGA  | AGAAAAAAT  | CAAATTTTAA | ATTTTCTCTGA | AAGTTACAAA  | AAATTTATAA | 18720 |
| GCAAATTCAA  | AACAGAAAGA | GAAGTTACAG | CCTATGCCCT  | AGATAAAGCA  | AAAAAATTGG | 18780 |
| GGTTTATTAA  | CGCTGAAGAG | AAAAAAAATT | TAATGCCAGG  | TGATAAAATT  | TTTTATACCT | 18840 |
| GTAGAGAAAA  | ATCTGTTGCT | TTTGCTATTA | TTGGCAAAAA  | TCCCATTGAA  | GATGGAATGA | 18900 |
| ATTTTATTGT  | TTCTCACACA | GATTCACCAA | GACTTGATGC  | AAAACCTCA   | CCAATCTCTG | 18960 |
| AAGAAAATGA  | ACTTACATTT | ATTAAAACCA | ACTATTATGG  | GGGAATAAAA  | AAGTATCAGT | 19020 |
| GGTTATCTAC  | ACCCCTTTCA | ATAAGAGGGG | TGGTATTTTT  | AAAAAATGGA  | GAAAAGGTTG | 19080 |

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|-------------|------------|------------|-------------|-------------|-------------|-------|
| AAATCAATAT  | TGGAGACAAT | GAAAACGATC | CTGTATTTGT  | AATTCCTCGAC | ATCTTGCCTC  | 19140 |
| ATCTTGATAG  | AAAAATACAA | AGAAATAAAA | AATCAGATGA  | AATTGTTGAA  | GGGGAAAAATC | 19200 |
| TAAAAATTTT  | AATTGGAAGC | CTGCCAATCG | AAACAAAAGA  | AAAAAATAAA  | GTTAAACTGG  | 19260 |
| CAACTTTGCA  | ACTAATAAAA | GAAAAATACA | AAATAGAAGA  | AGAGGACTTT  | GTATCATCAG  | 19320 |
| AAATTGAAAT  | AGTGCCTGCA | GGAACAGCAA | AAGACGTTGG  | ATTTGACAAA  | GCGTTAATTG  | 19380 |
| GGGCTTACGG  | ACAAGATGAC | AAAATATGCG | TCTTCACTTC  | ACTAGAATCC  | ATATTTGATC  | 19440 |
| TTGAAGAGAC  | TCCAAATAAA | ACAGCCATTT | GCTTTCTTGT  | AGATAAAGAA  | GAAATTGGTT  | 19500 |
| CAACAGGTTT  | AACCGGACTA | GACTCAAGAT | ATCTTGAATA  | TTTTGTTTCT  | GACATGATCT  | 19560 |
| TCAAAATTAA  | AAAATCAGAA | TACAACAATC | TTCACGTCCA  | AAAAGCTTTG  | TGGAATTCAA  | 19620 |
| AAAGCATTTT  | TGCTGATGTT | TGTGCAGCAA | TAAACCCACT  | ATTTAGTTCA  | GTTTCATGACG | 19680 |
| AACAAAACGC  | TCCCCAACTT | GGCTATGGAA | TACCTATAAT  | GAAATACACA  | GGACATGGTG  | 19740 |
| GAAAAAGTAT  | GGCAAGCGAT | GCTGATGCTG | AGCTTGTTTC  | TTATATTAGA  | CAATTATTAA  | 19800 |
| ATAAAAACAA  | TATAGCCTGG | CAAGTAGCAA | CACTCGGAAA  | AGTAGAAGAA  | GGAGGAGGAG  | 19860 |
| GAACTGTTGC  | TAAATTCTTA | GCTGGCTATG | GAATAAGAAC  | AATAGACATG  | GGGCCTGCTG  | 19920 |
| TTATAAGTAT  | GCATTCTCCA | ATGGAAATAA | CTTCTAAATT  | TGATTTATAC  | AATGCTTACT  | 19980 |
| TAGCATATAA  | AGCTTTCTAC | AGAGAATAAA | ATTACTATGG  | CAGATTTAGA  | AAAAATAAAT  | 20040 |
| AAAAATTAAAG | TAGCAGAGCA | TATTGTAGAA | TGCTTCGGGG  | GAATTAAAAA  | TATTAAAAAC  | 20100 |
| ATAGACAAAG  | ACCTAACAAG | AATAAAAATT | TTAGTAGACA  | GCAATTCTTT  | AGTCAAAAGA  | 20160 |
| GACGATTTAA  | CAAAAAATGA | CAACATAATA | GGAACTATTA  | AATCTAATGA  | ACTTACAGAA  | 20220 |
| GTTGTAATAA  | ATTTTGAAAT | AATCGAGGAT | GTTTATAATA  | AAATTTTATA  | TATGATGAAT  | 20280 |
| GAGCAAAAAC  | AATAAAGCCT | CTGCAGAGGC | TTTATTTTAT  | TGTCTAACAT  | CTCTCATATA  | 20340 |
| CTCAATAACA  | GATTTGGGCT | CCAACTCTTT | ATTCAAAAAT  | TTATATATAA  | CGCTTAACAA  | 20400 |
| ACTATTAGGA  | TTGAGATCAC | GATTTAATTG | TTTAAAAAAG  | AAAAAAATTG  | ATTTAGCAGC  | 20460 |
| CAAAACTCCC  | TCTGGTAAAT | ATCCAATTTT | TTCAATATTA  | CTTATCAAGT  | CATCTATACT  | 20520 |
| TAAAAAGCTT  | TCTAAAATGT | TTTTGCTAAC | AATTTTCATTG | CCAAATCGTC  | TATTTCTTCC  | 20580 |
| AAACATGCTT  | CTACAAGTAA | CATCTAAATC | GCCAGAACCA  | GACAAAAATA  | AAAACGTTTC  | 20640 |
| AATATTTCTT  | CCCCCAAGCT | CCATTGCAAT | ATCTTTTATA  | TTATTTAAGG  | ATATTGAAAA  | 20700 |
| TAAAAATGAT  | TCTGTATTAT | TACCTATTAA | ATTAGGATAA  | TTCAATTTAT  | AGGCATCCAA  | 20760 |
| AATTCCAAAT  | GCAATAGCAA | ACACATTTTT | TAAAGCTGCT  | GCTATTTGCA  | CCCCAAAAAC  | 20820 |
| ATCGTTGCTA  | TAAAATAAAG | AAATTGGGGT | TTTACTAAAT  | AAATTAATAA  | ACAAATATGC  | 20880 |

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| ATTTTCTCTG TTATTACTAG CCGCAACAAG CCCTGTTATC ACACCAAGCC CAACTTCCTC  | 20940 |
| AGCATGACTT GGACCAACAA TATAAGTAAT TTCGTCTTTA TATCCTTTCA TAATTCTCTC  | 21000 |
| AGCAGCTTCA ATAAGTGTCT GAGTTTTACC ATCAAAAGTA ATAAACCCCTT TTGTAAGTAT | 21060 |
| TGCTAGCTTT GGTTTTATCT CCAGAAAATG TAAAAATTGA TCCAATTTTT TTAAAATATC  | 21120 |
| AACGGTAAAA AGAGAAGGTG TTGCAATGAA AATATAATCA GACATTGTTA CAACTTCAAA  | 21180 |
| TAAATCTGAA CTTGCAACTA AATTTTTTGG CAATTTAATT CCCTTTAAAT ATTTAGTATT  | 21240 |
| AACATTATCA TTATTAATAT CATTCTTAAC ATCTTCTTCA AAGACCCATA AAAAAATATT  | 21300 |
| AAAATCAAAT TTATCTGCCA AAGACTTTGA AATAGCTGTT CCCCAGGCAC CTGCCCCAT   | 21360 |
| TACTGATATT TTCATAAATA CTCCCCCTAT AACCTTATAA AACTCATAT TTTATTGTTT   | 21420 |
| CATCTAAATA GATTTTTTATT TTACCAGAAT TTTCAATTTT CTTAAAAAGA ATTTATCTA  | 21480 |
| TTAAAAGCTT TCCCAATTCT TTGAATATAA ATTTTCTAAC ACTTTTTAAG CTGTACCCCT  | 21540 |
| TTCCATAAAT CTTTTCTCGA ATATAATCAA CAACACTTTT TTCAAAAAAA ACATCAAATT  | 21600 |
| TTCTATCTCT TAATATCCTT GCAAAATAAT TAAGTTCATT AAAAATGATT TTTTCAAAT   | 21660 |
| CTAACTCATC AATAGATTTA AATACAAACA CATGATCTAT TAATTCTAAA AACTCATTGG  | 21720 |
| GCAATCTCTT CTTTAATATA AAGTTAAAT CATTTTCCCC CGCCATTTTA TTTCTAAAAC   | 21780 |
| CAATGCTATT AAGCTCTTTG CTCTCAGCAT TGATACTTAT TACTATTAAA CTTTCTGATA  | 21840 |
| AGCTTACCTT TTTTCCAAGA CCATCAAAAA GTTTACCTGT TTTAAACCCC TCTAAAAAA   | 21900 |
| AATCTAAAAC CCTTTTATTA CATTTATCAA AATCTGATAG GAAAATAATA GAATTAGAAG  | 21960 |
| ATTTGTTCAA AAATTTAAAA AATCTGGTAG ATTCATAATA TCCTTCATTA CTTAAAACAG  | 22020 |
| GCCCAATCAA TCTATCAAGA GAATTAAAT CATTATACTC ACCCATGTTA AGACTAAATT   | 22080 |
| TAGGAATTTT AAACCTCTCT GATAAAATAT CCATCAATTT GCATTTTCCT GACCCAGAAG  | 22140 |
| CACCAATAAA GGCAAATATT CCAATAGTAC TTCTATTGGC AAGCAAATTG AATTTTAATA  | 22200 |
| ATTTAATATT TAATATCAA TCAAGTACCA AGTTATCATG TATAATAAGT TCTTTTTTTA   | 22260 |
| TTCTATTTTC TAAATTAATT AGCAATTCAC CATCATACTC TTCAAAATTA AAAATATTAG  | 22320 |
| AACCAACAAT AGATTTAATC AGATCGCAA CATCATCTTT TGTTATAATC CTTTTTATAT   | 22380 |
| TTTCAAGCTT AAACCTTAGAG CCTAATTCAT CTAAAATATC AAAAGCTTTG TCTGGAAGAA | 22440 |
| ATCTATCTTT AATATATTTT TGAGACATGA GAATGCAAGC TTGTATTGCC TCGTCTGTAT  | 22500 |
| ATTCCACATT ATGATACCTC TCGTAATCTT TTTTAATCTC CTGCAAAATA TTATAAGCGT  | 22560 |
| CTTCAAAATT AGGCTCTTTG AGCTCTATAC TCTGAAACCT TCTCATTAAG GCCTTATCTT  | 22620 |

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| TTAAAAAAA  | TTTTCTATAT | TCATATTCTG  | TAGTAGCTCC | AATAAATTTA | ATTTTTCCTA  | 22680 |
| AAGTGAGAAT | GGGTTTAAAC | AAATTGGAAA  | TATCCATACT | GCCAAATGAA | GTAGCCCCCTG | 22740 |
| CCCCTACTAT | CATATGGATT | TCATCAATAA  | AAAGCATAAC | TTTTTTTCTT | GAGCTTAAAA  | 22800 |
| AATCTAAAAC | CCTATTCACC | CTACTCTCAA  | GATCTCCCCT | ATATTTAGTA | CCCGAAACAA  | 22860 |
| GCCTACCAAT | ATCAAGAGAA | TAGATTTTCAT | ACCCTATTAA | ATCCTTTGGA | ACATTCTCTA  | 22920 |
| TTTTTATTTT | ATATGCAAGA | CCTTGGATTA  | ATACTGTTTT | TCCAACACCA | GGCTCTCCAA  | 22980 |
| ACAAAATAGG | ATTACTTTTA | TGCTTCCTAA  | GTATCACCTG | GATTAACCGA | GATAATTCTT  | 23040 |
| GACTTCTACC | AATTAAGGA  | TTGTATTTTA  | AATCCAAAGT | ATCAATAACG | TTTGTTAAAA  | 23100 |
| AATTACCAAT | AGAGTCTTTA | CTTTCTAAGA  | AAATATTATT | TTGATCCAAT | TCATCACGCT  | 23160 |
| TATCATCAAA | AATATGAAAG | CCTCCTTTCC  | TTTTTGGCGC | ATTATTATGA | ATATATTCTG  | 23220 |
| CAATTAATTC | ACTGTCGCCT | GAGGCAGATT  | TAGTATTTAC | AGCTAAATAA | TCATGAGCTT  | 23280 |
| CAATAAGTTT | ATCAAAAATA | GTCAAATTAA  | AACCCGAGCT | AAGCAGCGCA | TCTAAAATAC  | 23340 |
| TATTTTTTCT | TTTTTTGACA | AGCACCCACA  | ATAGATCTTT | TTCTTGATTT | TTATAAGGTT  | 23400 |
| TTTTTATAAA | AAAAAGAACA | CTAATTATAT  | CGTCATACAA | ATAATCCATA | CTAGAAACAT  | 23460 |
| AGTCTGGGAT | ATAATTGCCT | CTTAAGGGAA  | GTTTACTAAA | AAATTCTTCT | AGTTGTTTAT  | 23520 |
| TAAGTTTATA | AAAATCAATT | GCACACAAAT  | TAAGTAGTTC | TTTAACTTTA | TCACTTTTAA  | 23580 |
| TAAGCCCATA | AAAAATGTGC | TCTTCTGTAA  | ACACAAGGTG | CCTAGATTCC | ATGAAAAACA  | 23640 |
| AAAAGGTGTT | AAAAAATAAA | CAATTTAAAG  | CTCTTCTATC | ATACATCCAA | AATCAACTAT  | 23700 |
| ATAACAATTC | GTAAAAATTT | TTTTTTACCT  | ACTCTTAATT | CAACTTCATT | GTTATTAAAA  | 23760 |
| TCCTTTTTTG | TAAGAAGGTG | ACTCTGACTT  | TCTACCCTTT | TACCATTAAT | ATAAACACCT  | 23820 |
| CCAGAATCAA | TCAATCTTCT | GCCTTCTGAT  | TTGCTGGGCA | CAATTTTTGA | ATCTAACATT  | 23880 |
| AAATCAACCA | ATAATATCTC | TTCTTTTAGG  | CTAGAAAAGC | TAAATTTAAA | AAATGGAATA  | 23940 |
| TTGCTCCTAT | CTCCACTTCC | CCTAAATGCG  | GCAAAAGATG | CCTCTTGAAC | TTTCAAGGCT  | 24000 |
| TCTGCCTCTC | CGTGAACAAT | TTTAGTTATC  | TCAAAAGCCA | AAATCTCTTT | GGCCTTATTT  | 24060 |
| AAAGAATTCC | CCTTAAAATT | TGAAATTAAT  | TCAATCTCAT | CTTCTTCTAA | AAAAGTAAAA  | 24120 |
| AGATATAAAA | AAGTTTTTAC | ATCAGAATCT  | GAAGTATTTT | TAAAATACTG | ATAAAAATCA  | 24180 |
| TAAATACTAA | AAAGATTAGA | ATCAAGATAA  | ACAGCGCCTT | TTTCTGATTT | ACCCATCTTT  | 24240 |
| TTTCCATCAC | TTCTTGTAAT | TAATGGAAAA  | GTAAGCCCAA | AAGTTTCTGA | TCCATTTTTT  | 24300 |
| TTTCTAATTA | GGTCAACCCC | TGAAATAATA  | TTCCCCCATT | GATCATCACC | ACCAATTTGA  | 24360 |
| AGTCGGCAAT | TTTTAATTTT | ATTAAGCATA  | TAATAATCAT | AAGACTGCAA | AAGTTGATAA  | 24420 |

|            |            |            |            |            |             |       |
|------------|------------|------------|------------|------------|-------------|-------|
| TTAAACTCAA | TAAATGAAAG | TCCGAAATCC | ATCCTTCTTT | TATAAGTTTC | AAAGCTTAAC  | 24480 |
| ATACGATTAA | CAGAAAAATG | CATGCCAACA | TCTCTTAAAA | ATTCAATATA | ATTGAGATTA  | 24540 |
| TCTAACCAAT | TTGAATTATG | AATAAAACAT | TCTGAAGTAA | ACTTAGTTAT | TCTTTGAAGT  | 24600 |
| TGATTTTTTA | TCAACAAAGC | ATTATTGCCA | ATCTCTTCTG | AAGATAAAAT | CTTTCTCATC  | 24660 |
| TCACTTTTTT | CAGAAGGATC | GCCTATTTTT | GCTGTAGAAT | CTCCAATCAA | AACAATTGGC  | 24720 |
| ATGTGCCCGT | GTTGCCTAAG | ATGCATCATT | GCTAAAAAGG | GAATCAAATG | GCCAATATGA  | 24780 |
| AGAGAACTAG | ATGTTGCATC | AACTCCTGCA | TAAAAAACTA | TTTTTTCCCT | ATCCATTAAA  | 24840 |
| TCACTTAAAA | CTTTTAAAGA | TGTACATTGC | TTTAAAAATC | CGCGTTTATG | TAAAAGACTT  | 24900 |
| AAAGCAAGAT | TCATTTATTA | AAATCCTCTT | TGTAATTTAA | AATCTCTGTT | TTAATGTATG  | 24960 |
| AATATAAATC | ATTAATAAAA | ATTCTCTTCT | GAGTCATGCT | ATTTCTTTCT | CTAACAGTAA  | 25020 |
| CTGTCTCATC | CTCAATCGTA | TTGTAATCTA | TTGTTACGCA | ATAAGGAGTT | CCTATTTCTG  | 25080 |
| CTTGACGTCT | ATACCTTTTA | CCTATTGTTC | CACTATCATC | GTAAAATATA | TGAAAATCAT  | 25140 |
| CGCAAAGCTC | CATATAAATC | CTTCTAGCAA | TCTCAGTAAG | CTCAACTTTT | TTAACAAGAG  | 25200 |
| GAAATATAGC | AATCTTGTA  | GGAGCCAACT | TGGGATGTAA | GCGTAAAACA | ATACGCTTGT  | 25260 |
| CTCCATCTGA | GAGCTCTTCC | TCAGAATAAG | CATCACAAAG | AGTCATTAAA | ACAGACCTTG  | 25320 |
| TAAGACCAGC | AGAAGTCTCA | ATAACATAAG | GCACATATTT | CTCTTTTGTC | AACAAATCAT  | 25380 |
| GATACTCAAA | TACTTTGGGC | TTATTAGAAA | ATTTAGCGTG | CTGAGTTAAA | TCATAATTAC  | 25440 |
| CTCTATTGTG | AATTCCTTCT | ACTTCCTGAA | ATCCAAACGG | AAATTCATAC | TCAATATCAA  | 25500 |
| ATGCAGCTTT | TGCATAATGA | GCAAGCTGCG | TTGAATCATG | CGCCTTAAAT | CTTAATCTAT  | 25560 |
| CGGGACTAAT | TTTAAGAGTT | TCTATAAAAA | AATTCATTCT | ATTTTGCTGC | CAATAACAAA  | 25620 |
| ACCACTCGTC | TATTTGCTTG | GGATGAACAA | AAAACGTCAT | TTCCATTTGC | TCAAACCTAC  | 25680 |
| AAGTTCTAAA | TATAAAATTT | TTAGTAACTA | TCTCATTTCT | AAACGCTTTA | CCTACCTGAG  | 25740 |
| CAATCCCAAA | AGGAATCTTA | AGCCTTGAAG | AATCCAAAAC | ATTTCTAAAA | TTAACAAAAA  | 25800 |
| TTCTTGTGTC | TGTCTCAGGC | CTTAAATAAA | CTTCACTAGA | ACTATCCTCC | ACTACTCCAA  | 25860 |
| TGTGGGTCTT | AAACATTAAA | TTAAAACTTC | TTGGGGAGGT | AAAATTATTT | CCAACTTTGC  | 25920 |
| AATTCGGACA | ATTTTTTGAC | AAATCAATAA | AATCAGCTCT | AAATCTACTT | TTACAATCTT  | 25980 |
| TGCAATCAAC | CATAGAATCC | GAAAAACCAT | CAACATGACC | AGATGCTCTC | CAAATTTTCAG | 26040 |
| GGCGCATAAA | AATAGCACTA | TCTAAACCTA | CAATATTTTC | ATGCAAGTAC | ACCATGCTCT  | 26100 |
| TCCACCACTC | TTTCTTTATA | TTCTTTTAA  | GCTCAACCCC | CAAAGGACCA | TAATCCCAAG  | 26160 |

|            |             |            |            |            |            |       |
|------------|-------------|------------|------------|------------|------------|-------|
| CTCCTGAAAG | GGCCCCGTAA  | ACCTCTGAAG | ACTGAAATAC | AAATCCTTTT | CTTTTTGCAA | 26220 |
| GAGAAATAAT | ATCTTCCATT  | CTAACCATAA | AAATATCCTT | AATAGCTATT | CATTTATTCT | 26280 |
| TAAAAATTCC | TGTGCTAATT  | TTATTCTTTC | AAAAACTTTA | GACTTGCCTA | TCAATTTTAA | 26340 |
| AGAATCAAAA | AGCGGCGGAG  | AGACTTTGCT | ACCAAGCGCT | GCAATTCTAA | TAGGAAGAAG | 26400 |
| AATTTCTCCC | AATTTAAAAAC | CATTACTCTC | AGCAAAATCA | TAAAAAATTT | TATCATTTTC | 26460 |
| TTCTGATGAT | CTTTTTTCAA  | ACCTTTCCTA | AATAGGCTTT | ATTAATTCTA | AAATAGAACA | 26520 |
| AACCTCTTTA | GCTGTTTTTT  | TTCTACTTAA | AAACTCATCT | AAATTCCAAG | ATTTAATGTC | 26580 |
| CTCATAAAAA | AATTTAGTCA  | TATTTAAaGC | ATCACTTAAT | TTTTTAATTC | TACTCTTTAT | 26640 |
| AAGAGGAATT | AATAACTTTA  | ATTTTTGATT | TTCTTCCAAA | GTACTAGGCT | TAGAAACATA | 26700 |
| CCCTTTTTTT | TGAAAAAAG   | GGAGTAAAG  | ATTAAATAAA | TCTTCATCTT | TTTTTTCTCT | 26760 |
| AATATAGTAG | CTATTGAAAA  | AATCCAATTT | ATGATAATCA | AAAATAGCAG | GAGATTTATT | 26820 |
| GATCTTCTCA | ATTGAAAAAA  | ATTGCTCAAG | ATCATTTTTT | GAAAAAATT  | CTCTCTTATC | 26880 |
| GTCGTAAGAC | CAGCCAAGCA  | AAGTAACATA | ATTAATAATA | GCCTCTGGAA | GATACCCATC | 26940 |
| TTCAATAAAC | TGTCTTAAAG  | CTGTTGAGCC | ATGTCTTTTG | CTTAATTTTT | GACCATCATT | 27000 |
| TCCCATAACC | ATTGGAAGGT  | GACAATAAAT | AGGGGGTTTC | CATTTAAAAG | CCTTATAAAG | 27060 |
| AAGTACGTGC | AATGGACCTG  | AAGAAACCCA | TTCTTGAGCC | CTTAATACAT | GGGTAATTTT | 27120 |
| CATTAAATAA | TCATCAACAA  | CATTGGCAAG | ATGATAAGTC | GGCAATCCAT | CTGACTTAAG | 27180 |
| AATTACAGGA | TCAGGACTAA  | TGTCTTTATT | CGCCCATGTA | ATCCTTCCAA | GTAAAATATC | 27240 |
| ATCAAAGCTG | GTATCTCCTT  | CTAAAGGAAT | TTTAAATCTA | ACAACAGGCT | TGATTTTTTT | 27300 |
| AATTAGTGCA | TTCTCAACCT  | CTTCATTACT | TAAATTCsTG | CAATGCCTAT | CATATCCAGG | 27360 |
| TGGCATCTTA | TTAATATTTT  | GAATTTTCTT | AATTCTTTCA | AGCCTTTCGG | GACTIONATA | 27420 |
| ACAATAATAA | GCATGCCCAG  | ATTCAATCAA | ATATTTAGCA | TATTGCTTAT | ATATTGCACT | 27480 |
| TCTTTGAGAC | TGAACATAAG  | GCGCATAATC | ACCCCTTACA | ACAGGGCCTT | CATCAAAAGA | 27540 |
| AATGCCAAGC | CATTTAAGAC  | TTGAATAAAG | ATCATTTTCA | GCTTCTGGAG | AATACCTGCT | 27600 |
| CTGATCTGTA | TCCTCAATTC  | TAAGCAAAAA | TTTACCTCCG | CAAGACTTTG | CAAAAAATA  | 27660 |
| ATTAAACAAA | GCTGTTCTAA  | TCCCGCCAAT | ATGTTGTAAA | CCCGTTGGAG | AAGGCGCATA | 27720 |
| ACGAACTCTT | GTACTIONAAA | CACAACTCCT | TTAATAAAAA | ACATCTTTTT | TAGAAAAATC | 27780 |
| ATAAATATAA | TAAAAAACAA  | CAAAAAATAA | ATTGGAACCA | AGTAGCTTTG | TATGCTTAGA | 27840 |
| ATCTATCCTG | TTTTTAAATT  | TATAGTATCG | ATTTCTAATC | TCAATTTTCT | TGCTTTCAAG | 27900 |
| CAAATCAAAA | GATGTTTTTG  | ATTTTCGCAA | TAAATAATAA | AAATAAATAG | TAAAAATATC | 27960 |



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|------------|------------|------------|------------|------------|------------|-------|
| ATTTTTCAAA | AAAAACTTAT | CTAAAAAATT | TACCAACTCT | TTTAGCTTTG | AGTGCTCTTC | 28020 |
| AAATGACAAC | ATACTAAGAG | CCTCACAATA | TTTACCCAC  | TTATTTCTAC | TGTACTTGTA | 28080 |
| ATTTAAAATT | AAACTAGAAG | CCTTTTCTTT | TTCTCTAAAG | CTAATAAGAA | CAGAATAAAG | 28140 |
| CTCTATTATT | GTTTTATGTC | TTAATCTAGT | GTCTTTTAAA | TAAAAATAAA | GCTCATCAAG | 28200 |
| GCTTTTTTTT | TCTTGTTTTA | TTAAAAATAA | CCTAAGAAGA | ATAGATATTT | CAAAAACACT | 28260 |
| TTTAAGCTTT | TTGCGAACCA | TTTTAAGCTT | CAAAAAAGTG | AATGCATCTT | CCATCCCATT | 28320 |
| TAAAAATAAA | TACAATCTTG | GAAAAAATA  | TTGGGAATAA | ATAACATTAA | AAACAATCAC | 28380 |
| TAATAAAAAA | TAAACTACAA | TAAATTGGA  | ATTAAACAAA | ATGAAGCTTA | ATTTCATTTG | 28440 |
| AAATCTTAAA | ATTGCCAGAA | AATAAATAAA | TAATCCAAGA | AAAATAATAT | TAAAACCTAA | 28500 |
| GCGTATTTTT | TCTACCATAA | AAATCTCTTC | AAAAAAGCTT | AATTCAAAAA | TTGAGATATA | 28560 |
| ATAAATACAT | TATACTAATA | GATAGACAAT | TAATAAATAA | TATGATATAC | ATGGTTAATA | 28620 |
| GAGCTTAATT | TCAAGGGAAT | AAATGCAAAA | TTCTGAAAGC | ATTATTAAAA | ATATAAAAAA | 28680 |
| TTCATCATAT | TTAATAGACA | AGGAATTTTT | AGTTTGGCCT | GAGAATGCAT | TTATTGGAGA | 28740 |
| CAAAAACATT | GAGCTTATTG | AAAAATGGAA | TCTAAAGTCA | TACATTAAAG | AGAGAAAAAA | 28800 |
| TTTTTTCAGT | GACGATTCTG | TTAAAAAAGA | ATATGAAGAA | ATACACAAAA | AATTCAACGA | 28860 |
| AGAGGCTATT | TCCAGTTATC | ATGTAATAAT | AAGCAATTTA | GAAGAAATTT | ATGAAAATTG | 28920 |
| CAAAAGAAAT | AAAAAAATAT | ATTACCAAGA | TATTATGCCT | ACTGTAAAAA | AAGTAATAGA | 28980 |
| ATTTTACAAG | AAACAGAAGA | AAATTTTTAT | CAAATATTTT | AGAATTCCCA | AGCTTTCTGC | 29040 |
| AAACTATCAC | ATTATTCATT | CGGTAAATAC | AGCTATCCTA | ACAGTAGCCC | TTGGCAATGA | 29100 |
| AATGGGACTA | AATAACTATA | AAACAGTAGA | GCTTTGTAGT | ATTGCTCTTT | TACATAAAAT | 29160 |
| AGGATTTTTT | TTTATTCCAT | CAAAAATCAG | CGAAAAAAA  | GAAGCATTAA | CTGAGGAAGA | 29220 |
| ACTAGAAATA | ATAAAAAAAT | ATCCCATAAT | AAGCTACAAA | ATAGCTTCAA | CGAGTAACTT | 29280 |
| ATCACGATCA | ATATGTTTGA | CACTTTTAAC | ACATAAAGAA | AATCTAGACG | GAAGTGGCTA | 29340 |
| TCCTAAAGGA | TTAACAAGTG | AAAATATCAG | CATAGAATCA | AATATAATAG | GCGCTGCTAG | 29400 |
| TGCCATTCTT | GCTATCATTT | TAGATAAGGC | ATACAAAAAA | TCTTTTAATT | CTGGAGCATC | 29460 |
| TATTATTGAA | TTAATCAAAG | ATGCTGACAA | AAAATTTGAC | AAAAGGGTTT | TGAAGCTAAT | 29520 |
| AATCAATGCA | ATATCTTCTT | GTCCCTTAGA | CTTTATTGTA | GAAGTTAATG | ACAATTCTAT | 29580 |
| AGCCAAAATA | GTAGATATAG | ATGAGTCTAA | CCCAAATCTT | CCATACATCA | ACTACATAAT | 29640 |
| AAAAAATGGA | AAAGTTATAG | ACAAAAATGA | ACAATCTAGT | GTTCAATCTA | TACCAAATAC | 29700 |

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|------------|------------|-------------|------------|------------|-------------|-------|
| AAATACAGGA | ATAAAAAAAA | TACTCAATCA  | AAATGAAATA | GAGCTAATTA | AAAATAAATA  | 29760 |
| TTCTTTAATA | GATATTATAT | AAGACACTTA  | AAAGGAGAAA | AAATATGATT | TTGATAATAT  | 29820 |
| CAGCTATGCA | AGAAGAATCA | GAAGAAATAA  | ATAAAATACT | TGACAACAAA | GAAGAAATTG  | 29880 |
| TATTAAACGA | CTACTTAGAA | AATAAAAAAGA | TTTATAAAGG | AAAAATTCTA | GGAAAAGATG  | 29940 |
| TAATATCTTT | AACTACAGGA | ATTGGAAAAG  | TTAACGCAGC | AACTTGGAGT | AGTCAAATTA  | 30000 |
| TCTCTAAGTA | TAAATCACT  | CACATAATAA  | ACTCTGGAAG | TTCTGGGGGG | ATAAAAGAAA  | 30060 |
| ACTCTAACCT | TAAATATTA  | GACATTATAG  | TATCCTCAGA | AACAGCATAC | TATGACTTTG  | 30120 |
| ACTTAACTAA | GTTTGGACAC | AAAATAGGAC  | AAGTCCCTAA | TTTGCCACAA | AAGTTTAAAG  | 30180 |
| CAGATGAAGA | GCTACTTAAA | AAAGTGGCCA  | ATATTGTTGA | CAACAAGCTT | TTAAACATTG  | 30240 |
| ATATCCATAT | TGGCTTAATA | CTAACAGGAG  | ATCAATTTGT | TGACAATGAA | AAAAATCTTG  | 30300 |
| AAACAATTAA | AAAAAATTTT | AAAGATGCTT  | TAGCTGTAGA | TATGGAAGGA | GCTGCAATAG  | 30360 |
| CTCAAGTAGC | ACACATATTT | AAAATACCAT  | TCATAATAAT | TCGTTCAATT | TCTGATCTAC  | 30420 |
| CAAACAATAA | AGACAACCAT | ATAGACTTTA  | ATAAATTTTT | AAAAACATCA | TCAATAAATT  | 30480 |
| CAAGCAAAAT | GACAAAGGAA | CTTATTAGGC  | TAATATGAAT | AAAATAATAG | CAGCGAACCA  | 30540 |
| AACTTTAACT | TCTGAGGCTG | TATCTGAAGG  | ACATCCAGAC | AAAATTGCAG | ATCAAAATCTC | 30600 |
| TGATGCCATC | CTTGATGAAA | TACTAAAAGA  | AGATAAAAAT | GCAAAAGTAG | CTTGCGAGGT  | 30660 |
| CATAATTGCA | CAAATTTTAG | TAGTAATAGC  | AGGAGAAATA | AATAGTCCTG | TAAAAAATAA  | 30720 |
| CATAGATATA | AAAGAGGTTG | CTAAGAATAT  | CATCAAAGAT | ATAGGCTATA | CAAATATTGA  | 30780 |
| TTATGGGCTT | GATTACAAAA | CAATAACGGT  | AATAGACGCT | ATTGGCAATC | AATCACGTGA  | 30840 |
| CATTATAAAC | GCAATTGAAA | AAAAGGGATC  | CAATGCCCTT | GGAGCAGGGG | ATCAGGGAAT  | 30900 |
| AATATTTGGA | TATGCCTGCG | ATGAAACAAA  | AAATTTTTTT | CCTGCTCCTT | ATGAACTAGC  | 30960 |
| CAATTCAATT | CTAAAAAAG  | CTAGCAATCT  | TAGAAAATCA | GGAGCAATAA | AATGGTTAAG  | 31020 |
| GCCTGACTCA | AAATCTCAAG | TTACCATAGA  | ATACGATAAA | AACAGAAAAC | CTGTAAAAAT  | 31080 |
| AAAAAATATT | ATAGTCTCTC | ATCAACACCA  | TCCAAACATC | TCCCAAAAAC | TAATACAACA  | 31140 |
| AACAATAATT | GAAGAAATCA | TCAAGCCCAC  | TGTTCAAGAC | AAGTCAATGC | TTGATGAAAA  | 31200 |
| TACTGCTTAT | TGCATTAATC | CTTCTGGAAA  | TTTTGTAATT | GGAGGCCCTA | CCGAGACAC   | 31260 |
| TGGGCTTACA | GGAAGAAAAA | TTATTGCAGA  | TAGCTATGGA | GGATTTGCAA | GACACGGAGG  | 31320 |
| GGGAGCATAC | AGCGGAAAAG | ATGCCACAAA  | AGTAGATAGA | TCAGCTGCCT | ACATGGCAAG  | 31380 |
| ATATATTGCA | AAAAATATGG | TGGCAGCCGG  | AATTTCTAAA | GAATTTGAAC | TACAGCTCGC  | 31440 |
| ATATGCAATT | GGAATTGAAA | ACCCAATATC  | TATTCAAATA | ACTGGGGGAA | TAAATGATCC  | 31500 |

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| TAAATATGCA AACAAATAT TAAATTTTAT TGTTAATAAC TTCGATTTAA CTCCCAACGG   | 31560 |
| TATAATTGAA AAATTAAAAC TAAAACAACC CATATATCTT AAAACTTGCA CTTATGGTCA  | 31620 |
| TTTTGGAAAA AATGAATTTG AATGGGAAAA ATTAGATTTT GTAAAAAAA TACAAACAGC   | 31680 |
| GCTAAAAAAA TGAAAAAAT AACAAAGCTTT ACAATAGATC ATACAAAACCT CAACCCTGGC | 31740 |
| ATATATGTCT CAAGAAAAGA TACCTTTGAA AATGTAATAT TTACTACAAT AGACATTAGA  | 31800 |
| ATCAAAGCTC CCAACATCGA ACCAATAATT GAAAACGCAG CAATACATAC AATAGAGCAC  | 31860 |
| ATAGGAGCTA CTTTACTTAG AAATAATGAA GTTTGGACCG AAAAAATAGT ATATTTTGGC  | 31920 |
| CCTATGGGAT GCAGAACTGG TTTTACTTA ATAATTTTGT GAGACTATGA AAGTAAAGAT   | 31980 |
| CTTGTTGACT TAGTCTCATG GCTTTTTTCC GAAATCGTAA ATTTTTCAGA ACCTATCCCA  | 32040 |
| GGCGCAAGTG ATAAGGAATG CGGAAATTAC AAAGAACATA ACCTTGATAT GGCTAAATAT  | 32100 |
| GAATCTTCTA AATACTTACA AATATTAAAC AATATTAAAG AAGAAAATTT AAAATATCCT  | 32160 |
| TAGCTCATAA AATTTACAAA ATAGAAAGTA TTTCGCTTTC ATTTTTTGTT GCTACATCAA  | 32220 |
| ACTGAAAAAT AAATCCTAAT GTTATTTTAT GCATTTGATT TAAAAGTAAA GGTTTGTTGT  | 32280 |
| AAAAAATTGG AGAGATTGTA TATTCCAAAA AAATAAAATC TACATTAATT CTAGCTCCAA  | 32340 |
| TGTCTATTCC CAAAACAAAA TTATCCAATA ATACCCAATC ACGCGAATCT ACAAACAAA   | 32400 |
| TTTTTGCACC AATGTATGAA AATTTTAAAC CTGTAAAAAA GATTAAACTA AACATTGGGG  | 32460 |
| TATAGGATAA AAAGAAATAA TTACCATACA TTCTCAGTGA AAATGAAACA TCTTTTATTA  | 32520 |
| TGAAATAATT TAGAGAATGC TTCAAATATG CTTGATCATC CAACATAAAT ATAATCTCAT  | 32580 |
| TGGTATAAGG AGTATGGCTT GGTAAAAATT TAATATCTAA ATTAAATTCT CCACCAAATG  | 32640 |
| CTAAATTTTG AGAAACATTA ACACCAACTC CACTGAAAAA TTGATACTTA AGTCTTTCAT  | 32700 |
| AAAAGAATAA ATCTTGAGTA AAATTGTCAA CACCAAGCCC AACTCCACTG TATACATTAA  | 32760 |
| GATAGCTAGG AATTCCTGAA TAAATTCTAA ATGCATTAAG CATAAAAAACA AAAAAGAATA | 32820 |
| AAAAGTTTCT TCTCATAAAG AATCCTTTTG GGCAAAATAA AATTAAATAT TCATAC TTAT | 32880 |
| TTGCATAGAC AACTCTTTAA ATTTTCAAC TTCAAGATTA AGTTTATTGC CTCTCTTAAA   | 32940 |
| ACCAAAACCA TCGTTTTTAA ATCTTGGAAT TACATGAAAA TGAGTATGAA AAACCTCTTG  | 33000 |
| CCCTGCGCCA GCCCCCAAAG CAGAATAAAT ATTTATTCCA CCATAAATGC TTGAGTTTAT  | 33060 |
| TCTTTTTAAA GCATTTGAAA TTTTTTTACA TACCTTTAAA ACTCTCTCGT TAAATTTATC  | 33120 |
| ATCCATGTTT AATAAACTCT CACTATGTTT TTTGGGAATA ACAAGAGTAT GCCCAACAGT  | 33180 |
| TAAAGGATTA ATATCTAAAA ATGCTAAAAC TAAATCGTCC TCATAAACTT TATAACTAGG  | 33240 |

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|---|-------|
| AAGCTCTTTG TTTATTATTT TACAAAAAAT ACAATCATAC ATTAAAAATA TCCTATTATA | 33300 |
| AAAAAATAGC AATCAACATA TTAAATGAA ATTTAAACAG CATAGCTAAC TAAAACCCAT  | 33360 |
| TTTGCTATAT TAAAATAAGC TATTAAAGTA ATAGCATCTG CAATTGTAGT GATTAAAGGG | 33420 |
| CCTGCCATAA GTGCTGGATC CAACTTTAAA AGTTTAGCAA CAATGGGTAA AAGACCTCCC | 33480 |
| AATATCTTTG CTACTGTCAA ACTTACCATC AAGCAAGATG AACTACAAA AGCTATTTTC  | 33540 |
| AGCTTATCAG AATGGTGTGG AGCTACAAA AAGACAATTC TTAAAAAATT AACACTAGCA  | 33600 |
| AGAATTGCTC CCACTAGAAT GCTAACACAT ATTTCTTTA AAAACACTTT AAAAAATCT   | 33660 |
| TTTACCTTGA CAGTACCAAG AGCAAGCTCA CGAATTATTA GCGCAGATGC CTGAGAGCCG | 33720 |
| GCATTGCCTG AAGTATCCAT TAAAAGGGGA ATAAATTAG CTAAAACCAC TAAAGACAAC  | 33780 |
| ATTAAATTTT GATAATTTGA AATAATTGTA GCTGTAAAAG TAGAAGACAC CATAAGAACT | 33840 |
| AAAAGCCAAA TTATTCTATT TTTTGTCTA ACTAAAATAG AAGTATCAAG ATAAGATGTA  | 33900 |
| TCTAAAGGCT TAACAGCTGC AATCATTGTA AAATCTTCAG TATTTACAGA TTGAATAACC | 33960 |
| TCTAAAATGT CATCAATAAT AATAACCCCT ATCATTCTCC CCTCATTATC AACAACAGGA | 34020 |
| ACACTGGTAA TATCATGTTT TTGAAAAAGA AGTGCAACAT CTTCTTTCTC ATCATTAACC | 34080 |
| CCCACAATAT AAAACCCACT ACTTCTCAT TTTGACGAGA GAATAACATC ATCTTTAGCC  | 34140 |
| AATATTAAAT CTTCAATTTT TATAACTCCT TTAAATGCT TTTCATCATC TGTAATATAA  | 34200 |
| TAAGTGTAAT TATCTTCTTT GGTTTTAGCT ACCCTTCTAA TATAATCAAG AGCTTTGCCA | 34260 |
| ACTGTGAAAT CTTCTTTAAG CTCAACATAC TCAATTGTGA CGATCGAACC TGCAGAATCA | 34320 |
| TCAGTGTAAG AAAAAATTT ATTAATAATT TCTCTATTCT CTTCTGTAGA ACTTGCCAAA  | 34380 |
| AATCTCTGAA CAACATTTGC AGGAACCTCT TCCAAAAGGT CAATAACATC ATCAAGATTC | 34440 |
| AGCTCATCAA TCATTTCACT TATTTCTTTA TTGGTAAAAG AATTGCTAA TTTATTTTTT  | 34500 |
| GTAGATTGGT CAAAATTAGA AAAAGTTTCA ACTGCTATTT TTTTGGCAA AAATCTGTAG  | 34560 |
| AGTAAATCA ATTCAGTTCC ATTAAGTCTT TTAAGAGCCT CAGCAATATC AAAGGAATCA  | 34620 |
| TGCTTTAAAA ATTTTCTTTT AATTTTAGAA TAGCTCTTCT CTTAAGAAA AATCTCAAC   | 34680 |
| TCATCAATAT CTATCATTA AAGGCCTCCA AAAATTTAAA TTTTACAAGA CATTTAATGA  | 34740 |
| ATCTAATTCA TCAAAGCTTA TCCAATAACA TAGAACATCT TCCTGAGGGA ATAGGAAGGG | 34800 |
| TTTTTTCTTT TTTATTTAAT ATATTTATG TAAAATAATA AAGTTTTTCA GATTCCATTT  | 34860 |
| TTATTTCCCA ACCTCTTTTC CCCTTATTGC AAATTATTGT AGTTTGATTC TTTTAAAGAG | 34920 |
| ATAAGCTTTC TATCCCCATA ATCTCAAGAG TGGGTATATT CCAATATACA GTTTTATCAG | 34980 |
| GCAAACTAAT TGTAAGCCCA ATAATATTTT CTATCATTA GCTAATACTA AAAAGTGCAA  | 35040 |

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| GATAACAAAT AAGACCTTTC TCGGTATAAG TTTTTTTATT AGAATCAAAA TATGCAGGTC   | 35100 |
| CTTCTTG CAT AGGTCTATAA GCTTCCCAA TGTGCCCCTT AATTTTATTA AAAGGCATTA   | 35160 |
| AAGTGTCTAA TATATAATAC AAATGTCTTA TAGTAAATTC TCTTGCAATA TTTGCACGAC   | 35220 |
| CACAATATTC AAGCCCTTTG ATTACAAAAA AATTCATATA AGTATAAACT GAACCATAAT   | 35280 |
| ATCCATTGCC ATCCTCACTA AAACCTGGCT CACTAACAGA AAGTGTGGA AAAGGATTTG    | 35340 |
| GAGTCCCAA ATGATTAGTA CTTTTTAAAT AAAAAATCAT TCTTCTATT CTGTCCTCAC     | 35400 |
| TGGGAATCTC AGAAAGCATT GGGAAAAAAC CTACTATTGT CTTGATTTCA AGAATATTTT   | 35460 |
| CATTAACATC AAGATCATAA TAAATCCAT CTTTTTCGCT CCACATTAA GAATTAATTT     | 35520 |
| TGACCTTAAG GGAAAAAAT CGTTTTTTGT ATTCAAGCGA TAAATTTTTA TCATTTAAAA    | 35580 |
| TGTC TGCCAA TTTAGAAATA CAATATGCAT TATGAAGCTG CAATGAATTA AAATCTATAG  | 35640 |
| GATAGTACGC ATCTACTCTT GGGGAGTTCT TATAAAAAAT TTTATTTACA TCAATTGAAT   | 35700 |
| AAAGACCATT TTCCTTTAAA AATTTGCTCT CTATCCATTT ATAATACTTA TCAAGAATTG   | 35760 |
| GTAAAACTTC AGAAATTCTC TTTTTATTTT CTGTCTTATG ATATAAGTTG TATTCAGCCC   | 35820 |
| ATGCAAAAAT AGGAAATCCA ATATTCTCTT CATTCTCATC AAGATCAATA ATAGCATTGT   | 35880 |
| TATTGTCATA TCTAGCCCTG ATTGCACCAG ATTCTTCCTG CAATTGATAA AATTTATCAA   | 35940 |
| TTGCAGATGT AGATGAATAT TCCCCATTAC TATAGACAAG AAAAAAGCTT GACATACAAG   | 36000 |
| CTTG CATCTG ATCTATATAA TCACAATTTT CCGAATAATA ATTTTATCT TTTTGGCCCC   | 36060 |
| TATCAGCAAC TTTT TGCAA ATCACCTTAT CTTGAATCCA AGATAAACTT TTATTATAAA   | 36120 |
| TATCAATAAA GTCTTGATCA TAATAGTAAA TTTTGGGAAA CATTTTTTTA TTCAATGCTA   | 36180 |
| AATCCTCTAA AACAACAGAA ATGTACTTCT ATTTATTATA ACACAATAAA TATAACATAA   | 36240 |
| TTAAAAAATT AAAA ACTGGA AAATTA AAT CTTTCTATTT CAAAAGTTTA TAAC TTTAAT | 36300 |
| ATTTGTTTTA TAAAAATTC ATATTCCTCC TGATTGCAAG GAACAATGAT CTCTTTATTG    | 36360 |
| ATTATTTTTT TCTCAAGAAC TTTTATGTAT TCAAATTCAT TCGCATTAGG CAGCCCAATA   | 36420 |
| ACACCATCTC TTAATCCCAT TTGAACAAC TTTCCACCTT CCCAAACATT ATTATTTTTA    | 36480 |
| ATATATTGCG CAGTAATCAA ATACAATGCG TCCCCAATGT TTTTATAAC AGAAGTAATA    | 36540 |
| AAATTTTTAG GAGCAAGATA TGACTGATCC TGATCGGCTC CAATAACATA GTAACCATCG   | 36600 |
| CCAAGGTTTT TTGCTGTCTC AATAACACCA ATTCCTGCTA AACCAGCTGC AAAATGAATT   | 36660 |
| ACATCTATCC CTTTAGAATA CATTTTACTA GCTATGGTTC TACCAATATC AACATCGGAA   | 36720 |
| AAAGAATTGG AATATTCAT TATAATCTCT ATATCTTTAT TAGCATACTT TGCTCCAGAT    | 36780 |

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| TCATAACCAT AGCGAAATGC ATCTACTATA TTACCCTTCA TTCCCCCTAT AAAACCTATT   | 36840 |
| TTGCCAGAAA AGCTTTTTTTT GGCTGCAATA TAGCCAGCCA AAAAAGCACC TTGGCTCTAC  | 36900 |
| TCTGAAAACA ACAGCAATCA AGTTTTTCAGG AATCTGAACA TCATCACCAT AAATGGGATC  | 36960 |
| TATTATTCCA TAGCTAATTT TTGGATTCTC CGATGAAACC AATAAAGATG CGTCCGTAAG   | 37020 |
| CATGTACCCT ACAAGCCAAA TCAAGTCTGA GCCATTCTTT TTAAATTAT CAAGATCTGA    | 37080 |
| AACATAACTA GAATAAACTC CAGAAATAGC ACAAGAAAAA ACTTCTTCAA TATTTTCTGG   | 37140 |
| AAAATCTTTT TTCAAGCGTA ATAAAGCCTC ATTAGCACTA GAATTAAAAAG ATTTGTGCGTC | 37200 |
| AAGAACACCA TCTACCAACA TGGATATCTT AATTTTTTTT GAACTAGATT CTATTCCATT   | 37260 |
| TCTACTAAAG CAAGAAGTCA ACAAATACC GAATATAAAA ATTACAATTC TCATATAAAG    | 37320 |
| CACTTCTCCA TTTCAATTAT TCAAACAAAA CCAATGTGTT TTTTATACTT AAAAATAAAA   | 37380 |
| TATATAAATT GATTCTTTAT TTAAATAAAT TCTTTAAGAA ACTTCTCATA ACTTTCTTTA   | 37440 |
| TTAGATGGAA CAATAATTTT TTTGTTGATT ATTTTGCTAG AAAGATTGTC AATTTCTTTT   | 37500 |
| TCAAGTTCAA AGGAAATCAT TTTAGGATTT CTTACAAACC CCACAACCTC TTCTTTAAGG   | 37560 |
| CCATAATTTA TTAATTTGCC ACCTTCGAAA GTATTAGTTT TTAAATGGTT AGATGTAAAA   | 37620 |
| ATATTTAAAG CTCTACCAAC ATCTTTAGTT GTAGATGTTA TTACATTGTC AGGAGCAAGA   | 37680 |
| TATGCTTGAT CTTTCATCAAC TCCAATAATG TAATGCCAG AACCAAGTTC TTTTGCAACC   | 37740 |
| TCAATAGCCC CAATTCCTCC AAGGCCTGCA GCATGATGAA TAATGTCTAT CTCATCAGAA   | 37800 |
| TACATCCTAG TTGCAACGCT TCTACCAGCT TCAAGGTCAG CAAAACCTACC AATATACTGA  | 37860 |
| GTAGATATCT TTATATCTTT ATTAGCATAC TTAGCACCAG CTTCATACCC ATACCTAAAA   | 37920 |
| GCATCTACTA TCTCGCCTTC TATTCCTTCT AAAAATCCAA TTTTACCTGT TTTAGAAAGT   | 37980 |
| TTTGCAAGCA TATAACCCGT TAAAAATGCA CCCTCTTGAG CTCTAAAGGT CATGCCCACC   | 38040 |
| AAATTTGCAG GAATAGGATC GTTAGAATAA ATAGGATCAA TAATTGCATA TTTCATATCG   | 38100 |
| GGATTTTGAA GAGCCGCAAC CTTGGCCACA TCGCTAAATC TATACCCAAT AAGCCAAATT   | 38160 |
| AAATCTGAGC CCGCATCCTT AAGCCCTTCA AGATCAGATA AATAAGAATT TGATGAGGAT   | 38220 |
| TCTTTTAAAA CAAGCTCAAT TTAAATTCT TCTTTAACTT TTTTACGCC ATTTAAAGCA     | 38280 |
| CTCTCATTAA AAGATTTATC ATCAAAAGTT CCATCAATTA TTAAAGATAC CTTAGGAATT   | 38340 |
| TCGCTCCCAA GACTACCTTT ACCACTACAA GATAAAAAA CAATACTCTC AAGCAAAATC    | 38400 |
| AACAACAATA TTTTATTCAT AAATATTTT CCCTTTACAA ACAAAGCTAT ATTTAAGTAG    | 38460 |
| TTTATAACTT TGATTTAAAT AAATCAAAATG CATATTCCT ATCAGGAACA ATAATTTCTC   | 38520 |
| CACTTATTAT TTTATTTTCT AGATCAATAA CTTTCATCAAC CAACCTATTG TTTAAAACAT  | 38580 |

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|-------------|-------------|------------|-------------|------------|-------------|-------|
| CGGGATCCTT  | AACAATTTCT  | ATTACTCCTT | CCTTTAACCC  | CCGATCAATA | ATAATTCCAC  | 38640 |
| CCTTAAAAAC  | TCTATTATTA  | ATATACTCTG | ATGAAATAGA  | ATAAATAACC | TTACCAATAT  | 38700 |
| CCTTAATTAT  | TGAAGTAATA  | ACATTTTGAG | GCGCAATATA  | TGATTGATCT | TGATTTAAAC  | 38760 |
| CAATAACATA  | ATATTTAGGT  | CCAAGCTCCT | TAGCAGCGTC  | ATAAACTCCA | AGACCAGTTA  | 38820 |
| TACCAGCTAT  | TGGAAAAATA  | ACGCCTACTT | TATCTTCTTT  | ATACATGAAT | AGAGCCATTG  | 38880 |
| CTTTGCCTTT  | CTCCTTATCA  | AAAAGAGAAG | GTGCTTTTTT  | TGAAACTAAT | CTTAATTTAG  | 38940 |
| GATTGGCATA  | AAAAATTCCA  | GCCTTAAAC  | CAAACCTAAA  | ATCTTTTACA | TGCTCACTCA  | 39000 |
| TAGGACCTGT  | TAAAAATCCA  | ATCTTTTCTT | TTCTGCTCAT  | CTTAGCAGCA | ATATACCCAG  | 39060 |
| CTAAAAATGC  | AGCCTCTTCA  | TTTCTAAACT | TAATAGCCAA  | GGAATTCCTA | GGAACCTGAA  | 39120 |
| TATCACCATA  | ATCAAAAGCA  | TCTATAATAC | CATAATAAAT  | ATCTGGACGT | TCATAGGAAA  | 39180 |
| GCTTAACTGA  | CAAGTCAGAA  | AATCGGTATC | CAATCAACCA  | AAAAAGATTT | AAAGGATTTT  | 39240 |
| TTTGAACCTC  | ATAAGCATCC  | TCAGTCATTG | CCTCATCAAC  | AGTAAGAAGT | CTTTTACCCCT | 39300 |
| CAATAGGATA  | AGGTCCTAAA  | GATTTAGTTA | TAAGCTTTAT  | TCCAAAATTA | TCCCTAAGTT  | 39360 |
| TTACAACACC  | ATCATGAACG  | CTTTGATTAT | AGCCTTTATC  | ATAAAAGCTA | CCATGAGCCA  | 39420 |
| AAACACCTAC  | AACAACTTTG  | TCAGATTTAA | TAGACTTTTT  | ATTAGATTTA | AAACAAGCAA  | 39480 |
| ATACTAATAA  | AGATAAAGTA  | ATAAAAATAA | ATCTTTTAAA  | CAAAATTAAT | CCTCTCCTTA  | 39540 |
| TATTTTTTTT  | AAAAATCTA   | AATTTTTTAA | AAATTAAAAAT | ATTAACCTTA | TTTTACTAAC  | 39600 |
| AAGTAGTATT  | CTTTATTTAT  | AAAATAAAAT | TTTAATAATC  | CCTTTTAAAA | AAATACTTCT  | 39660 |
| AGCATTAATA  | AAAACACAGT  | AGTAGGAAAA | ATAATTTTTTC | CTACATCACC | ATAATATCCA  | 39720 |
| AATTTAAACC  | CTTTTGCAAG  | ATTAATTTAA | ATTCAAATTA  | CAACAATTAA | AAAACCCTTT  | 39780 |
| AAAACATCTT  | TAAAGAATTA  | AAAAGATTTT | TCACAAATCA  | GCTCAATAAA | AATCAAATTA  | 39840 |
| ATTTTCCATT  | TGCAAAACAA  | AGTTATCATA | AGATACCTTG  | TCATAAGGCA | CTTTTATTAT  | 39900 |
| ACCATTTCATT | ATACTTTGCC  | CAATTTTCAA | TGATTTGTTA  | TAAATCTCAG | AATAATTTGA  | 39960 |
| TTTTAAGTTT  | TCATTTAAAA  | CTAAACCAAG | ACCATCTTCT  | TTAAGCCCTA | AAAACATGGT  | 40020 |
| CTTGCCACCA  | TCCAAAACCTC | CAGTTTCTAA | ATACTTTTTT  | GTTAAACTAT | ACATCAATGA  | 40080 |
| ATCAACTTTT  | TTTACAGCAG  | AAACAATAAC | ATTGTTAGGA  | GCAAGATATG | ATTGATCCTG  | 40140 |
| ATCGACTCCA  | ATAATATAAT  | GATCGGGCCC | CAACTCTTTT  | GCGGCCTCAA | TTACCCCTAT  | 40200 |
| ACCAGAAAGC  | CCTGCAGCTG  | CAAATATGAT | ATCAACCCCA  | TCTCGATACA | TATTAGATGC  | 40260 |
| CGTTGAACGA  | CCAAGTCCAA  | AGTCTCCAAA | TGTACCAACG  | TATTGAGAGA | CCACTTTAAT  | 40320 |

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|-------------|-------------|------------|-------------|------------|-------------|-------|
| ATTAGAGTTT  | GCATACTTAG  | CACCAGCTTC | ATATCCATAC  | ATAAAAGATT | CTAAAACCTTT | 40380 |
| TCCCCCTCACT | CCTCCAACAA  | ATCCAATCTT | ACCCGTTTTTA | GAAGCCTTCG | ACGCAAAGTA  | 40440 |
| TCCTGCTAAA  | AAAGCCACCT  | CTTCGGATCT | AAAACATAA   | TTAAGAAGAT | TTTTGGGTAT  | 40500 |
| TTGAATTTCA  | TCATAAACCC  | CTTCTATGAT | TGCATAATTA  | ACAGAAACAT | TCTCGCTAGC  | 40560 |
| TCTTTGAAAA  | AGAATGTCTG  | ACAATCTAAA | CCCAATTCCC  | CAAATCAAAT | TTGAATTACC  | 40620 |
| ATCTTCTAAG  | TTTGCAATAT  | CTCCTAAATA | AGAATTGCCT  | GATAGTGCTT | TTTCAATTAT  | 40680 |
| ATTTATATTT  | AAATCTGCCT  | TTAATTTTCT | TATCGCCTTA  | GAAGAACTTT | CATTAAATCC  | 40740 |
| TTTATCATCA  | AAAGCACCAT  | CAACTATAAG | CGAAACTGTT  | TTTGCCTCCG | ACTTGCCATC  | 40800 |
| ATCAGAGCTA  | GAACAAGCAA  | CAATAAATAA | AAAAATTAAA  | AAATAATAAA | CTTTTTTTTAA | 40860 |
| CATAAAAATA  | TCCTCCTTGC  | TTTTAATAAA | AAAATACAAA  | AAATAGATCT | CATAATACAC  | 40920 |
| GGCATATAAA  | CAAAAAAAGA  | CACCTTAAAA | AGGTGTCTTT  | TTACCATCTA | TAATGAGTAA  | 40980 |
| AAGCTTTATT  | TGCTTCAGCC  | ATTCTATGAG | TATCTTCTTT  | CTTCTTGAAA | GCAGCTCCAG  | 41040 |
| TAGAATTATA  | TGCATTTAAA  | AGTTCGTTTG | ACAACTTTTT  | TTTCATAGAC | CTACCGCTAG  | 41100 |
| ACTTTCTAGC  | AGCAAAAATA  | ATCCACTTCA | TAGCCAAGGC  | TTCTCTTCTC | TCTTCTCTAA  | 41160 |
| CTTCAACAGG  | AACTTGATAT  | GATGACCCAC | CCACTCGTCT  | ACTTCTTACT | TCTACCAATG  | 41220 |
| GCTTAATATT  | ATCTAAAGCT  | TTATAAAAAA | CAGCCATCTT  | GTCGCTTTCT | TCAAGCTTAT  | 41280 |
| CGGCAAGCAA  | ATCAATTGAA  | CTATAAAGTA | TACTCTCGCT  | TATTGATTTT | TTTCCATCAT  | 41340 |
| ACATCATTTCT | ATTTGCAAAC  | TTTGCAACAA | TTCTAGAATT  | ATATCTGGTA | TCAACAAAAA  | 41400 |
| CTTTCTTTTT  | GATTTTFTTTA | TTTTTTCTTG | ACATATTTAA  | TATTAACCCA | CCTTTCAGTT  | 41460 |
| AAGCTTTAGG  | CTTTTTTGTT  | CCATACTTAG | ATCTACCCTT  | TTTCTTATTA | TTAACGCCAA  | 41520 |
| GGGTATCCTT  | AGCTCCTCTA  | ACAATATGGT | ACCTTACTCC  | AGGCAAATCT | TTAACTCGAC  | 41580 |
| CACCTCTAAT  | TAGAACCACA  | GAGTGTCTTT | GTAAATTGTG  | TCCAATTCCT | GGAATATATG  | 41640 |
| CTGTTACTTC  | AAATCCATTT  | GAAAGTCTAA | CACGCGCTAC  | TTTTCTTAAA | GCTGAATTAG  | 41700 |
| GCTTTTTTGGG | AGTTACGGTC  | ATTACACGCG | TACAAATTCC  | TCTTCTTTGA | GGACAAATTT  | 41760 |
| GAAGCGCAGG  | AGATGCGGTC  | TTCTCCGTTT | GACTTTTTCT  | AGGCTTTCTA | ATTAACGTAT  | 41820 |
| TAATTGTAGG  | CATTTATCAA  | CGCTCTCCTT | TTCTTGAAAC  | TATTAATAAA | ATGGTAGCAA  | 41880 |
| ATATATCACT  | TATTTTCAAG  | TTAAACTTCA | GAATCGATAT  | TTTCACTAAC | TTTAATTTTT  | 41940 |
| TTATAAAGAC  | CCATACCAGT  | TCCAGTAGGA | ATTAAATGTC  | CAATTACAAC | ATTTTCTTTT  | 42000 |
| AATCCCCCTAA | GATCATCTAT  | TTTTCCAGCA | ATAGAAGCAT  | CTGTTAATAC | TTTTGTGTGT  | 42060 |
| TCCTGGAAAG  | AAGCTGCGGA  | AATAAAAGAA | TCTATATTAA  | GAGACGTTTT | AGTTACTCCT  | 42120 |



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| ATAAGAATTG GACTTGCTAT TGCTGGCTCA CCACCTTGTT CGATTACTTT TCTATTTTGC  | 42180 |
| TCATAAAAAAG TGTGCTTATC TACCTTTTGC CCATAAACAA AATTAGTATC ACCAACTGCA | 42240 |
| ACAATCTTAA CTTTTTTCAT CATTTGCTTG ATTATCACAC CAATATGTTT GTCATTAATG  | 42300 |
| CTAACACCCT GTTTTCGATA AACATCCTGA ATTTCTGCCA ACAGAAATTC TTGTAAACTA  | 42360 |
| ATCCCACCTA AAATTTCAAG CACATCATGA GGATTAATTC TACCATCACA AAGCATATCT  | 42420 |
| CCTGCTTTTA CAACATCTCC ATCTCTAACC AAAAGATGTT TTCCAGCTGG AATATAATGC  | 42480 |
| TTATGTTCAA CCCCATACTC ATCTAAAATA TTAATAAGCC TTTTACCTTT TTGAATTGAT  | 42540 |
| TTAAATTGTA CAATTCCGCT TACTTTAGCC ATTTCAAGTA AATTCTTAGG AATTCTTGTC  | 42600 |
| TCAAAAAGAT CATTAACACG AGGCAATCCC CCTGTAATAT CTTGAGTTTT TTCAGAACCT  | 42660 |
| TTAGAAAGTT TCGCAATAAT ATCTCCTATG TTAATACTCT GGCCATCTTC AACTTGAAGA  | 42720 |
| TAAGCATCAC CTGGTAATAC ATAAGATGCA ACCTCCATAC CACTACTATC AATAATAAAA  | 42780 |
| ATTCTAGGAT CAAGAGATTC AAAAACATTA TCTGTAATTC TTTTTTCAAC ATTGCCTGTT  | 42840 |
| TCAGTATTTA TTTCTCTTTT AAGAGTAGTT CCTAAAATAA TATCCTTAAA TTTAATTTTA  | 42900 |
| CCCTTAACCT CTGCAATAAT AGGCTCTGCA AATGGATCAA ATGTACCAAT AACTTTGCCT  | 42960 |
| GATTCAACAT AATCACCAAC CTCTATTTCA AGCTTTGTAC CCGCTTTCAA GGAAACTTCT  | 43020 |
| TGCTCTTCTG ACACTATGAA AAAATTATCG TCTCTTAATT TAACATAACC AATGTAAGAA  | 43080 |
| GAGAGAATCT CTGAGCCCTT TTTATCAATA AACAAAGGAA TTCCTTTTAT TACTCTTTGA  | 43140 |
| GAATCTAAAA CTTTAATCTC TTTTATGTTC TTAATTTTTT CCTCATAAAA AACATTGATT  | 43200 |
| ATTTTTAAAG TTCCTTTTCT TGTGAAAAGA ATTCCATTAT CAACTCTAAC ATTA AACCT  | 43260 |
| TCTATGCCAT TAAGTATGAA GGCATTCTTT AAAGATATTT TATCATCCTC ACTGCCAGCC  | 43320 |
| TGAGCAACTC CACCAATATG AAAAGTTCTC ATGGTTAATT GAGTACCCGG TTGACCTATG  | 43380 |
| GACTGAGCAG CAATTATTCC CACAGCCTCC CCAATATTAA CAGGTTTGTT CTTAGAAAAG  | 43440 |
| TCTCTACCAT AACATTTTTG ACAAACGCCA TGCTCAGCTT CACACGTTAA AACAGATCTA  | 43500 |
| ATAACAAGTT TTTCAATACC AATTTTCTCT AATAATTCTA TTTTAGCTTC TGAGATTTCT  | 43560 |
| TCATTTGCAT CTAAAACAAT CTCGCCAGTA ATTGATTTTT TTATTCTTTC AATAGAATAA  | 43620 |
| CTCCCAACAG CTTTTTCTTT CAAAGATTCT AATATTTCTT CACCATTTTT TACAGTCTCA  | 43680 |
| ACTTTTATTC CATTTATAGT TCCACAATCC TCTATTCTAA CAACAACATC TTGAGCAATG  | 43740 |
| TCTACTAATC TTCGAGTTAA ATATCCAGCA TCAGCGGTCT TAAGAGCAGT ATCTGCTAGA  | 43800 |
| CCTTTTCTTG CTCCATTTGT AGATATAAAA AACTCTATCA CAGAAAGACC TTCTTTAAAG  | 43860 |

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| TTAGAAATAA TTGGAAGCTC AATAATATCC CCAGAAGTTT TTGCCATCAA TCCTCTCATA | 43920 |
| CCAGCAAGCT GTCTTATTTG ATTCCTACTA CCCCTAGCAC CAGAATCTGC CATCATATAT | 43980 |
| ATAACATTAA ATCCATCTCT ATCTTTCTTT AAAATTTCCA TCATCTTATT AGTAAGTTCT | 44040 |
| TCATTGGTCT TTAACCAAAC AGAAACTACA TTGTTATAAC GCTCTTCGCC AGTAATAACA | 44100 |
| CCTTTAGCAT AATCATTTTG AATCTTAGCA ATCTCTTTAT TGGCCCTTTC TACATAAGTT | 44160 |
| CTTTTTTCAT CAGGAACAAT AATATCGCTC ATACTAATTG TGCATCCAAA CTTAGTGGCA | 44220 |
| TACCTAAAAC CAAGTTCCTT GATGATGTCA AGCATTTCOA TTACGATAGA AGAACCATGA | 44280 |
| ACTACATAAA CTTTTGATAT TAAAATTTGT AGCTCCAAAT CACTAAGGGT TTTATTTACA | 44340 |
| AATTCAATTC CCTTGGGCAA AGCCTCATTA AATATAACCC TACCGGCCGT AGTTTTTTTT | 44400 |
| TACTCACCAT GAATTTTTAC ATAAATAGAA GCATTGTAAT CCAGACTCCT ATTATTTATG | 44460 |
| GCAAGAATAA CATTGTAAAA GTTTAAAAAC TTTTACCTT CTCCAACAAC ATTCTTTTTT  | 44520 |
| TCCATAGTTA AATAATATAG GCCCAAAACA ATATCTTGGG ATGGAAAAAC AATAGGATGC | 44580 |
| CCATTGGCAG GATTTAAAAG ATTATTTGTT GAAAGCATT AAGCCCACT TTCAGCTTGT   | 44640 |
| GCTGCCGGAG TAAGAGGCAC ATGTACCGCC ATTTGATCAC CATCAAAATC GGCATTGTAT | 44700 |
| GCATGACAAA CAAGAGGATG TAATTTTATT GCCTTACCCT CAACTAACAC AGGTTCAAAA | 44760 |
| GCTTGAATTC CAAGTCTATG AAGAGTGGGT GCCCTATTTA AAAGAATAGG ATGCTCTTTG | 44820 |
| ATAACAAGAT CTAAAATTTG CCACACCTCA TCTACTTCTT GCTCTATTAA ATTCTTTGCT | 44880 |
| CTTTTGATAT TAAAAACAGC TTTACTCTCA ATCAGTCTTC TTATCACAAA AGGCTTAAAA | 44940 |
| AGCTCAAGGG CCATTTTTGC AGGCAATCCA CATTGATGTA GCTTAAGCTC AGGTCCAACA | 45000 |
| ACAATAACAG AACGACCAGA ATAATCTACT CTTTTACCAA GAAGATTTTG CCTAAACCTT | 45060 |
| CCCTGCTTAC CTTTTAATGC ATCGGAAAGC GACTTGAGAG GCCTACTAGA TGAACCTTTG | 45120 |
| ACAACCTTTC TTTTATGAGA ATTGTCAAAA AGAGAGTCTA CTGATTCTTG AAGCATTTCT | 45180 |
| TTTTCGTTTC TCACAATAAT CTCTGGCGCA TTAAGAAGAA GCAACTTTCT TAAACGATTA | 45240 |
| TTTCTATTTA TGACTCTTCT ATAAAGATCA TTAAGATCAG ATGTTGCAAA GCGCCCCCA  | 45300 |
| TCAAGCTGAA CCATTGGCCT AATCTCTGGG GGAATAACAG GAAGAACTTC CATAATCATC | 45360 |
| CACTCTGGCT TATTGCCAGA AATTTTAAAA TTCTCAATAA TTTCAAGACG TCTTAAGAGT | 45420 |
| TTCTTATCAG TTTTATCATC TTTATCTATC ATTTGAATTC TAAGCTTAGA CGAAAGCTCA | 45480 |
| TCAAGATCAA GATTTTCAAG AAGAGTTTTA ATAGCCTCAG CCCCATTGA AGCATTTAAA  | 45540 |
| GACATACCAT ATCGCTCTCT AGCTTCTATG TACTCATCTT CATTTAAAAG CTGCATTTTT | 45600 |
| TTAAGATCAG TATCGCCCGG TTCAATTACT ACATATTTTT CATAATAAAG AATAGAATTC | 45660 |

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| AAACTAGATG CTGTAATATC AAGCAAAAGC CCAATCCTAG AGGGTATATA TTTGTAATAC  | 45720 |
| CAAATATGAG CAACTGGGGC TGCTAGCTCA ATATGCCCCA TTCTTTCACG TCTAACCTTA  | 45780 |
| AAATGGGTAA CCTCTACATT ACAACGATCA CAAATAATAC CTTTATATCT GACCGATTTA  | 45840 |
| AATTTACCAC AATAACATTC CCATTCCTTT GTAGTACCAA AAATCCTTTC ACAAAAAAGC  | 45900 |
| CCATCTTTTT CGGGTCTTAA AGTTCATATAA TTAATAGTTT CGGACTTTTT AACCTCTCCA | 45960 |
| TAAGACCAAT TTCTAATTTG ATCGGGAGAC GCTATTTTAA TTTTATTCT TTCAAAATCT   | 46020 |
| TTTATCTCTT TCATAAAAAC TCCAAAAACC TAGCTTTTAT TAATCAATTC TTCTTCTTTT  | 46080 |
| TCTGTCAAAG GAACCTGATT CCCAGCATCA TCATAAATTG ACAAATCAAG TCCAAGCCCT  | 46140 |
| CTAAGCTCTT GCATTAGCAC ATTAAAAGAC TCAGGAATCC CTGATACATT AGTAGGAACG  | 46200 |
| CCTTTTACTA TATTTTCATA TATTTTAACT CTGCCTGACA TATCATCAGA TTAACTGTT   | 46260 |
| AAAAGTTCTT GAAGGGTGTG CGCCGCACCA TAAGCTTCAA GAGCCCAAAC CTCCATTTCT  | 46320 |
| CCAAGTCTTT GCCCACCAA TTGAGCCTTT CCTCCAAGAG GTTGCTGAGA AACAAAGAGAA  | 46380 |
| TATGGGCCCTG TTGATCTTGC GTGCATTTTA TCATCAACAA GATGGTGTAG TTTAAGCATG | 46440 |
| TAAATCACCC CAACCATTAC TTCATTTTCG AACGGCTCTC CTGTATAACC ATCATATAAA  | 46500 |
| ATTTCTTTAG AAGTTGGATT AAATCCAGCA GTTTTTAATT TTTCTGAAT TTGTTCAATT   | 46560 |
| GTAGCAGATT CAAAAACAGG AACATTATAA GATTCACCAA GATATTTACC AGCAAGGCCT  | 46620 |
| AATTGAGATT CCATTAAC TGCGATATTC ATTCTAGATG GAACTCCCAA AGGATTTAAG    | 46680 |
| CATATATCAA GAGGGGTTCC GTCTGCAAGA TAAGGCATAT CTTCAACAGG AAGAATCTTT  | 46740 |
| GCAACAACAC CCTTATTACC ATGTCGTCCA GCCATTTTAT CGCCCTCTTT AAGCTTCCTT  | 46800 |
| TTTTTGGA CATAAACTTT AAGTATCTCC TCAACTCCAG GAGAAAGATT ACCAACATCC    | 46860 |
| TCTTTGGTAA TCCTTTGAAC ATCAATAACT GTACCTTCAG TACCATGAGG AACTTTTAAT  | 46920 |
| GAATTATTTT TAACATCTTT TGCTTTTTCT CCAAAAATGG AAGTTAACAG TCTAAATTCA  | 46980 |
| GGAGTAATGT CTCCTTCTGA CTTTGGAGTA ACTTTACCAA CCAGAATATC ACCGGGCTTT  | 47040 |
| ACATAAGTTC CTATCCGTAT AATCCCATTT TCATCCAATT TATTTAATAT CTTTTCATA   | 47100 |
| ACATTAGGTA TATCTCCTGT AACTTTCTCA GGACCAAGTT TAGTTTCTCT TACCTCTATG  | 47160 |
| CTAAATTCTT TGATATGAAT AGATGTATAA AGATCTTCCT TTACAATTCT ATCAGAAATT  | 47220 |
| AATATAGCAT CCTCATAATT AAATCCATTC CAAGGAATAA CTCCTAGCAA TAAATTATTA  | 47280 |
| CCAAGAGCAA GTTCTCCATA TCTAGTAGCA GGACCGTCAG CTATTATCTC GCCCCTTTCA  | 47340 |
| ACTTTTTGAC CCTCTTTAAC TAAAACGGAT TGATTAAAAC AAGTGTCTTG ATTTGTCCTT  | 47400 |

|             |            |             |             |            |            |       |
|-------------|------------|-------------|-------------|------------|------------|-------|
| TCATACTTAA  | CAATATGATA | TTCATCTAAA  | TCTTTAGCAT  | TCTCTGCCTC | AAAAGGTTTA | 47460 |
| ACAACTATCT  | TACTACTTGT | TGCAAGAATA  | ACTTCCCCAC  | TTCTTTTAGC | CTTAACAAC  | 47520 |
| ACTCCTGAAT  | CCTTTGCAAC | AACGCTTTCC  | ATACCCGTAC  | CAACAATAGG | AGGCTTAGGG | 47580 |
| AAAAGCAAAG  | GTAAGCTTGT | TCTTTGCATA  | TTAGAACCCA  | TAAGAGCTCG | ATTTGCATCA | 47640 |
| TTGTGCTCAA  | GAAAAGGAAT | TAACGCCGAA  | GATACTGAAA  | TTAGCTGCCT | AGGAGAAACG | 47700 |
| TCCATATAGT  | CTATATTTGT | GGGACTTGTT  | GTAAGTATAAT | CACCAGAAAT | TCTAACAGAA | 47760 |
| ACTAAATCTT  | CAAGATACTT | TCCATTAGAA  | TTAAAAGCAG  | CATTAGCCTG | AGCAATACAC | 47820 |
| TTTTTCTCTT  | CGTCAATAGC | AGATAAATAT  | TCTAATTGGT  | CCGTCACCAC | TCCATTAACA | 47880 |
| ACTTTCCTAT  | AAGGAGTTTC | TAAAAAACCA  | TAATCATTAA  | CTCTAGAATA | AGTAGCCAAA | 47940 |
| GAAACAATAA  | GTCCAATATT | TGGCCCTTCA  | GGGGTTTCAA  | TAGGACACAT | TCTACCATAA | 48000 |
| TGAGTATAAT  | GCACATCTCT | TACTTCAAAT  | CCTGCCCTAT  | CTCTTGAAAG | TCCTCCTGGT | 48060 |
| CCAAGAGCAT  | TAAGACGCCT | TTTGTGAGTA  | AGCTCAGCCA  | AAGGATTGAC | CTGATCCATA | 48120 |
| AACTGTGAAA  | GCTGACTGGT | TGCAAAAAAT  | TCTTTAACAG  | CAGATACAAT | AGGCTTAACG | 48180 |
| CTTATTAATT  | CTTGAGGCTT | TAGATTAAAA  | ACTTCCTTGT  | TAGACATTCT | ATCTTTAGCA | 48240 |
| ATTTTTTCAA  | CTCTTGACAT | CGCGCCTTTA  | TATATATTAG  | TAAGAAGCTC | ACCAACAGAA | 48300 |
| CGAACCTTTC  | TATTTCTTAA | ATGGTCAATA  | TCATCAAGAA  | TATCATGGCC | TTCATATATT | 48360 |
| CTTAAAAGAT  | GAGATATGGT | GTTAACAATA  | TCATCCATAG  | TTAAAACCGA | TGTAGTTAAA | 48420 |
| TCATCAAATC  | CAAATTTTTT | AGAAAGTTTA  | TACCGCCCCA  | CACGTCCAAG | ATCATATCTT | 48480 |
| CTTTCAGAAA  | AGAATATGGT | TTTTTAAATCG | TTTTCAGCAT  | TATCAATTGA | TATTGGCTCA | 48540 |
| CCGGGAAAAA  | GAGAACCATA | AACAGCTAGC  | ATAACTGATT  | CTTTTGGAAG | CTCTTTAGAG | 48600 |
| CCATCCTTTA  | AAGCAAAGAA | AGCATCCTCT  | TTTTCAAGAC  | AATTTAGAA  | AACATTCGAA | 48660 |
| CTTACAAAGC  | GCTTTCCAGA | AATATCATT   | TAACCATCAA  | AATCAACAAG | CTCTATTTCA | 48720 |
| TTTACTCCAT  | TTTGTAAGAA | ATCTTCAACA  | TCTTGACAG   | TAATTTTATC | TCCTGCACGA | 48780 |
| TAATACATAT  | TCTCTCTTAT | GTTAATACTC  | TTAGCTAAAT  | ATTGCCCTGG | AAGATCTCTT | 48840 |
| TTTGTACCGT  | CTTCAACTTT | AATTTTTTTA  | ATATTGTAAG  | AAGTTTCTAT | TATTTTTTCT | 48900 |
| CTCGTATCAA  | ACCCTAAAGC | TCTTAAAAAA  | AGAGTTATAA  | GTATTCTTTT | TTTTCTATCT | 48960 |
| ATTTTTTACAT | AAAGATAATC | TTTTTTTGAA  | TCAATCTCAA  | ATTCTAACCA | AGAACCACGA | 49020 |
| TAAGGAATTA  | TTCTAGCAGA | ATACAAATCT  | TTTTCTTTAT  | AAAAAACAAC | TCCTGGGGAT | 49080 |
| CTGTGAATCT  | GAGAAACAAC | AACCCTCTCA  | GCCCCATTAA  | TAATAAAAGT | GCCTCTTTCT | 49140 |
| GTCATTAAAG  | GAATAGTTCC | CATGTATACG  | TCTTTTTGCC  | TTATTTCCCC | AGTAGTCAAA | 49200 |

|            |            |            |             |            |            |       |
|------------|------------|------------|-------------|------------|------------|-------|
| AATTGCAAAT | TCAATCTTAC | TTTTAAACA  | GCCTCATAAC  | TTTGACCCTT | TCTTTTACAT | 49260 |
| TCTTTTTCTG | TAAAATTAAG | GGCATCGTTT | TCTATATAGT  | ATCTTTCATA | CTCAAGAGCA | 49320 |
| ACATCACCAT | TTCCACTTTT | AATGGGAAAT | ATATTTCTAA  | AAACAGACTC | AAGGCCCTCA | 49380 |
| TTAAGTAAAG | GTTTTTTACT | TTTTAATTTA | TCAAGTTGTA  | AAAATTTTTC | ATAAGAATTT | 49440 |
| AATTGTATTT | CTATCAGGTT | AGGTAGGTCT | AAAATCTCAT  | CAGCTCTTCC | TTGTCCCAGA | 49500 |
| TGAACTCTTT | TTATCATTA  | AAGACTCCTT | TTTTAAGACA  | TAACAAGCCG | CACATCATAA | 49560 |
| CGACATGCGG | AATAACAAC  | TTGATATATT | TTTAATTTTT  | TATTTAACTT | CAACTTTTGC | 49620 |
| GCCAACTGCC | TCAAGTTTCT | TTTTTAATTC | TTCAGCATCT  | GACTTAGAAA | GACCTTCTTT | 49680 |
| AATAGCTTTA | GGAGCGGCTT | CAACTAACGC | CTTAGCTTCT  | CCAAGACCAA | GTCTTGTAAT | 49740 |
| AGCTCTAACT | TCTTTTATAA | CATTTATCTT | GCTATCACCA  | AAAGACATAA | GAATTACATC | 49800 |
| AAATTCGGTT | TGTTCTTCAG | AATCAGCCGA | ACCTACTGAA  | ACAGCTCCCC | CTACACCAGC | 49860 |
| AGCAACAGCG | GCAGTTACTC | CAAACCTTTC | CTCAATAGCT  | GTTACAAGGT | CAACAACCTC | 49920 |
| CATAGTTTTT | GCACCTTCAA | GCCAGGTAA  | AATATCTTCT  | TTATTTAGTG | CCATATTAAC | 49980 |
| TCCTTATATA | TTTTCATTTT | ACAGTGATAG | CATGCACTCA  | AAAATTAAGA | CTAACACTGT | 50040 |
| CATGTTAATT | TTTAACATCA | GCCAAAGCTT | TCAATGTTCT  | TGCAAGCTTA | GAACTGGCG  | 50100 |
| CTTTTAACAC | GCTAGCAAAT | AAAGAAATAG | ACTCTTTTTT  | GGTAGGAAGC | TTGCTGTAAG | 50160 |
| CTTGAACCTT | AGCCTCATCA | TAAAACTCTC | CTAATACAAA  | ACCGCCCTTT | ACTTTTAAAG | 50220 |
| TACTACTTTT | TACAAAATCA | TAAAAAATTT | TTGCTATTAC  | ATTAGCTTCT | TCTAATGCAG | 50280 |
| TAACAACAAC | TGTAGGGCCA | ACCAAACAAG | AATCAACAAC  | ATTAATATTC | TTTTCTTTTA | 50340 |
| AAACCATCTT | CATTATATTG | TTTTTAACAA | CTTTTAATGA  | TCCATGTTTC | CCTTCTATTT | 50400 |
| TATTGCGAAG | TTCTGTTAAC | TGAGCTACAT | TTAAACCTCT  | ATAATCTAAG | AAAAAAAGAT | 50460 |
| TTTGTGCT   | ATCTATAAAC | TGTTTTAATA | AATCAAAACAT | TTCCAACCTT | TTAGCATTTA | 50520 |
| TCTTTGCGCT | CATAATGTTA | CCTCCAAACA | AAATTAACCT  | TTATAGAAGG | CCCCATAGTA | 50580 |
| GATGAAATAT | AAATACTATC | TATAAAAGCT | CCCTTTAAGT  | CACTCGGTCT | TTTTTTAACA | 50640 |
| ACTTCCTTGA | CAAATTCCTC | ATAATTTTCT | TTTATCTTTT  | CATTGTCCAT | AGAAGATTTA | 50700 |
| CCAAAAGAAA | AGCTTATTAC | ACCATTTTTA | TTTGCCCTAA  | ATTCTGTTCG | ACCCTTTTTA | 50760 |
| AGACTGTTGA | TTGCATCTTT | AAGATTATTT | GTGACTGTTT  | GAGTCTTTGG | ATTGGGCATT | 50820 |
| AAACCCCTTT | TCCCTAAAAT | AGGACCAAGT | CTTCCAACAT  | CTTTCATCAT | ATCAGGAGTT | 50880 |
| GCAACAACAA | CATCAAATTC | ATCCCAACCG | CTTTTAATCT  | TATTTATAAG | ATCATCATCG | 50940 |

|             |             |            |             |             |             |       |
|-------------|-------------|------------|-------------|-------------|-------------|-------|
| CCAACATAAG  | TTGCACCAAA  | AGCTCTAGCT | TCATCTGCTC  | GATCACCTTT  | TGCAAAAACA  | 51000 |
| AGTATTCTTT  | TTGGCTTCAT  | AAACTGATTT | GGCAAAACTA  | TAGTGTCTCT  | AACAGTATGA  | 51060 |
| TTTTTTTTTA  | AATTAAGGTT  | AATAGATATA | TCTATAGTTT  | CATCAAATTT  | GGCAAATTTA  | 51120 |
| ATTTCTTTCA  | ACAGCAAAAT  | TGCATCTTCA | ATGTTATAAA  | ATTTATTCTT  | ATCCACTTTA  | 51180 |
| GAAAAAGCTT  | CAATATATTT  | TTTACCCTTT | TTTGACATTA  | TTTCTCCACC  | TCAACACCCA  | 51240 |
| TTGAACGTGC  | ACTTCCTGCA  | ATAATTTTAA | ACGCTGCTGA  | TTCTGACTTT  | GCATTTAAAT  | 51300 |
| CAGACATTTT  | AATTCTTGCT  | ATCTCCATCA | ACTTTTCTTT  | TGATATGGTT  | CCAACCTTTAT | 51360 |
| CTGTATTAGA  | TTTCTTAGAT  | CCTGATTCTA | TCCCAATAGC  | TTTTTTAATT  | AAAATCGAAG  | 51420 |
| CTGGGGGAGT  | CTTTACAATA  | AAAGAAAAAC | TTTTATCACT  | ATAAACAGTA  | ATAATAACAG  | 51480 |
| GAACCACAAT  | GCCGGGATCC  | ATCTTTGCGG | TTCTCTCATT  | AAATTCCTTT  | ACAAACTGAG  | 51540 |
| GACCACTAAC  | TCCATGAGGT  | CCAAGCGCTT | GCCCTATTTT  | AGCTCCTGGA  | GCCGCTTGAG  | 51600 |
| CAGCTGGAAC  | CTGCAATTTA  | ATCCAAGAAA | TTGCTTTTTT  | TTTTGCCATA  | TAATCTCCTT  | 51660 |
| ATGGTAGTAA  | CGCCTTCAAA  | GCTCCCATTA | GTATTAAATT  | TTAAATCTTT  | TCTATATGTT  | 51720 |
| GGAAATCAAC  | TTCAACAGGC  | GTTGATCTTC | CAAAAATTTG  | AACTGCAACT  | TTTAATTTCT  | 51780 |
| TTCTTTTCATA | ATCAATAGAA  | CTAATAAGTC | CTTCAAAGGA  | GTCAAAGGT   | CCGCCTTTAA  | 51840 |
| TTCTAACTCT  | TTCTCCTTCT  | TCAAAGTCAT | AAAGCATAAA  | AATAGATTTA  | TTTGCTTTAA  | 51900 |
| TCTCACCAGT  | AAGCATAAAA  | ACACTTTTTA | CTTCTTCATC  | ATTAATAGGA  | ATAGGCCTTT  | 51960 |
| GCCCCTTACT  | AACACCAACA  | AAATTAATAA | CGCCTTGAAC  | TTTGATAATA  | TTAGCAATAA  | 52020 |
| TATCTTTCCA  | GCCTACTTCT  | GGAAGATCTA | GCTCAATAAG  | AATATAGCCT  | GGCCAAATTT  | 52080 |
| TTCTCTCCCT  | TATTCTTTTC  | TTGCCATTTT | TTATCTCTTC  | TACTTTTTTCA | ATAGGAGCCT  | 52140 |
| TAACATCTAA  | TACCACACCG  | CCAAAAACAC | CTTCATTTAT  | TAAAAGCCTT  | ATGTCCTGCT  | 52200 |
| CTATCTTTTT  | CTCATATTGA  | GAATAAGTTT | GAACCTACATA | CCAAGCTCTA  | GACATAATTT  | 52260 |
| ACCCTTCTTA  | TAATAAAACT  | AAAATACATA | AGTTACAACA  | AGAAACATAA  | GATAATCGAC  | 52320 |
| TATACCCAAG  | AAAATTGAAA  | CAAATAATAC | CAGCCAAAAA  | ACTTGCTTTC  | CATTTCCAAC  | 52380 |
| AACTTCATTA  | TACTTAGGCC  | ACGTTACCTT | CTTAAGCTCT  | AAGATACTAT  | CTTTGATAAA  | 52440 |
| CCTAAACACT  | TTAAAGCCTC  | ACTTTAATTC | TAACAACAGG  | TCAGGAGGGA  | TTCGAACCCC  | 52500 |
| CAGCATACAG  | TTTTGGGAGAC | TGTCGTTCTA | CCGTTGGAAC  | TACTGACCTA  | TTATTTATTA  | 52560 |
| TTTTATTTTT  | CCTTCTTTAT  | GAAGAGTGTG | TTTTCGTAAT  | TTTGGACAAT  | ATTTTCATCA  | 52620 |
| TTCTAACTTT  | TCTTGCTTAT  | TGCGTCTATT | CTTAGTAGTG  | GTATAATTTT  | TAATTCCTGT  | 52680 |
| TTCTTCACAA  | ATCAAAGATA  | TAAGCTCAAC | AGCTCCTTTG  | CCCTTCTTTT  | TACCCATATA  | 52740 |

|             |             |             |             |             |             |       |
|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| ACAAACTCC   | TAAC TACCA  | TAAAAGCCCT  | CAATCGGACT  | TGAACCGACG  | ACCCCCACCT  | 52800 |
| TACCATGGTG  | GTGCTCTACC  | AACTGAGCTA  | TAAGGGCACT  | AATTCCTAT   | AAAAC TCTTT | 52860 |
| ATTATCTTAG  | TTGATTGTTT  | AGAAAAAAC   | AAGTACTAAA  | TTTAATTTTC  | TTACTTTATT  | 52920 |
| ACAACAAGTT  | TTCCATCTTG  | CAGAAGTTTA  | ATGTTGTTAC  | TATTTGAAAA  | CAACTTATTA  | 52980 |
| ATAGAATACT  | CATCAAGTAT  | AATATCTGTA  | TTATTTT TAC | CATAAATACT  | TTTGCCAACC  | 53040 |
| AATTTTAAAG  | GACGATGTCC  | AACCCTATTT  | TTATTATTAT  | AAAGAACATC  | GTTGCTATAC  | 53100 |
| TCAAGCATTC  | CCCATTTTTT  | CAAAGCCTCT  | GAAGAAACCA  | TTCTCTTATC  | AAAATATGGC  | 53160 |
| CTAATGTTTT  | CATCATAAAT  | TTTGATAAAA  | AAAGAGTCTT  | CTAATTTTTT  | AGAACCAGAA  | 53220 |
| GTATTATTGT  | AGACTTCGCC  | TACATAAATC  | ACAATTCCTG  | TATAATCGGT  | TTTATCAACA  | 53280 |
| TCAGAATTTA  | CTAATGGATA  | AAAAGCTTTA  | TAAGGAGTTT  | CATGTGAAAA  | AAATAAATTT  | 53340 |
| ATAAAATCGG  | GGAAAAGACT  | AAGCTCATAC  | CTAACAGTAA  | GACTTCTTAA  | ATCTTCTGAA  | 53400 |
| TATTTTATAT  | AAGACCTTTT  | CAAAATACTA  | TTAGGACCTG  | AAAAATTAAG  | TATCAAGCTG  | 53460 |
| GGATT CAGGT | CAAAATAATT  | CTTAAAAGTA  | TTTTCAGAAT  | CCATAATTAT  | CTTAAAAAGA  | 53520 |
| GATTCTCTTA  | TTAACGTGTC  | TTTAAAATCA  | TTAATGGTTG  | CTATTAATTT  | AGACGCTGTA  | 53580 |
| TTTAAACCCA  | CTGGTCTAAA  | TTCA TTTTCA | TTAATTT CCT | TAACAATGTC  | AAAACAAATA  | 53640 |
| ACCTTCCTAT  | CCCAATCGAT  | TATTCTGTGC  | ACACTTGTCT  | CAGCAGCTTC  | ATCCTTTATT  | 53700 |
| ATGGAAACAT  | TAGAATAAAG  | TAGAAATAAA  | TAAC TAAAAA | GAAACTTAAG  | AAAATGCATT  | 53760 |
| ATCTCCTTCC  | TATTATTTTT  | TACCTAAATA  | CACGCCTATC  | CAAGTCCAGC  | CATTATTAAT  | 53820 |
| TTCTGGATCT  | TTAGGATAAA  | CAAT TCTTTT | AAAAACAAAA  | TACCATT CAT | GAATATGGTC  | 53880 |
| CCAGCCCCTT  | GACTCAAGAT  | AAGATATATC  | GTCACTAGAA  | TCTGCCTCAA  | GATGCTTTGC  | 53940 |
| AAATTGTATT  | CCGTTTTTTC  | TTCTCCCCC   | AAGCCTAATC  | ATAGTGGTTA  | AAAAGCTATT  | 54000 |
| AGTATTAATG  | GAATTACTCT  | TTCCACCCTT  | TTGATCCCAG  | CTTTGAATAA  | AAAAATTATT  | 54060 |
| CTTATCTCTT  | ATATTAAGCA  | ATTTAGAAGT  | ATTACCAGAA  | AGAACAAAAT  | TTTTAACATC  | 54120 |
| CTGGATTAAA  | TCTCCTAAAT  | TTCTATAAAC  | AACAACTCT   | GGATTATTAA  | AGTAATTAAT  | 54180 |
| TTTTGTAAAC  | ACATTAAAAAT | AGTCTCTAGA  | ATCTATTTTT  | AAATGTGCCC  | TTGGAATTGA  | 54240 |
| AAGAAATTTT  | TTATAATAAA  | AATAAGATTC  | ATCGTAATCT  | TGAACATCTT  | CCAAACTTAG  | 54300 |
| CGCAAGATTA  | TAAAAATAAT  | TACCCTTTTC  | CTCATTATTT  | AAATTATCAA  | TCCCCATATT  | 54360 |
| TAATATAAAT  | TTGTAATAAT  | TGATTTTATC  | GATTGAATCA  | ATATTTAAAT  | TGACAATCTT  | 54420 |
| TTTAGCAACC  | CTTGTTTTCA  | TTGAATGGTT  | TTCATAAACA  | TAATCATCAA  | AATTATCAAC  | 54480 |

|             |            |            |            |            |             |       |
|-------------|------------|------------|------------|------------|-------------|-------|
| AACACGCTTG  | TAAATATTAA | AAGCTACAAA | ATCTTCTCCC | ATGGAATCAT | AAATATTGCC  | 54540 |
| CATTAAATAA  | AGATACAAAG | GATAATATTC | TCTAGATTCA | TCATCAATAA | TTCCATTATT  | 54600 |
| TACAATTTCT  | AAAGCATCTT | CATAATTTTT | ATTGCAATA  | TATATGTTAA | CAACTCTATC  | 54660 |
| AATAATAAGA  | AATTTATCTA | ATCTATTTTT | ATTAGAAGAT | TTTAAAAGAT | GTGTAAGATT  | 54720 |
| TTGAATCTCG  | CTTTGCTTTT | GGTTGCAAGA | AGTAAATAAA | AACAAAATCA | AAATAAATTT  | 54780 |
| AGCAATTTTG  | ACCAATAGAT | TCATAAGAGT | ATTTTACAAT | ATAAACTACA | CATAATAAAA  | 54840 |
| TGCACACCTC  | AATTTAAAAA | GTTGTCAAAA | TTTTTATAAA | TACTAACTTA | ACATCACCAC  | 54900 |
| ATTTTACATT  | AACACCAATG | TAAAAATATT | AAAACAACAA | AACTAAAGCC | TAAATTTAAA  | 54960 |
| ATTTAGCATA  | AAACTCCAAT | ATAAAAAAAT | AGTAAAAATC | ATTCATAAC  | TGACAATTAT  | 55020 |
| GACCACAAAA  | ACGTTGAAAA | ATAATCTTAT | AATGACCTAT | AATAAATGTT | AATTTAATAC  | 55080 |
| CTATTTAAAA  | AGCAATCGTC | TAAAATTAAA | CACTTTATTA | AAGGAATACA | AAACTCACAA  | 55140 |
| AACATGAAAA  | AAGAATTCAT | TATGCTTTTA | CTGTTATTGC | AAACAATAAT | GAATTTAAAC  | 55200 |
| TCAATAAATA  | CTAATACAAG | TACTTCAATA | GTAAGAAGAT | TGCAAAAAAA | TTTATATATT  | 55260 |
| TTCAATAGCA  | AAGAATATCA | AAAAGATAAA | GACACTTTAA | ATGAATTTAT | AAATTCAATA  | 55320 |
| AATATAAATG  | ACAAAGAAAT | CTTACAAAGT | TTAGAAAAAA | TCAAAAATGA | GCTTTTTTATA | 55380 |
| ATATCTGTTT  | TTTTCAACAA | TAAAAAAGGG | ATTTTAATTG | CACTAAATCT | TGGAGCAGAA  | 55440 |
| ATAAACTTTA  | AATATAAAAT | ATCTCCAATT | TCAATTTCAA | TAATAAACAA | TGAATTTGAA  | 55500 |
| ATCACAAAAA  | TATTGATAGA | TTACGGAATA | AGCCTTAATC | AAATAGATGA | TACAGGTAT   | 55560 |
| TCTCCAATAT  | TTTGGGCAAT | ATATACTAAT | AACGAAAAAA | TATTTGAATT | TTTAAAAGAA  | 55620 |
| AGCGGAGCTG  | ATTTAAGTTT | CACACTTAAA | AATAGAAAAA | CACCAATGCA | AGCCGCAATA  | 55680 |
| GAAACAGAAA  | ATATAAACT  | AATTAAATCT | CTGAAAAAGA | AAAAAATTTA | CATTGACGAC  | 55740 |
| AATTTCAAAA  | AAAAACTTAA | AAAGCTTAAA | AACAAAGAAA | TAGTTCGAAT | TTTAGTAAAA  | 55800 |
| TAGAAAATAA  | ATTCAATACC | CATCAGATGC | TTGGATATTT | TTATCTTTAT | CAATAAGATC  | 55860 |
| CTTGATATATA | AAAGATTTTT | TAGCAAGCGT | CTCTTTTAAA | TTTTTTAGAA | AGGGTAAATT  | 55920 |
| CCTCCACATT  | ATTCCGCGTA | CTAATTTCTC | AAGTTTTTGA | ATTCCTTTAC | TTTCTTTTTTC | 55980 |
| TATCCAAAGA  | AAATAATCTT | CTAAAAAAA  | TTTTTTAACA | TTTCCCTTTT | TAATAAATTT  | 56040 |
| AACATAATAA  | TCGTAATATT | GGCCTGTAAT | TCCTGTTTCC | ATCCACCTAA | AAGAAGCTTG  | 56100 |
| CTCTTTTGCA  | AGTTCCCAA  | CAAAATCACC | AATACCCAAA | ATAACCGCCT | TTCTTAAGTT  | 56160 |
| TTTAGCATAC  | ATAGGTATTA | ATATTTTACC | CCTACCATTT | GCTCTGTTTT | TAACATCAAT  | 56220 |
| TGATTCCCAA  | CAAATTCCTT | TATCACCATA | AGAAGGTATT | AATATAAAAT | AAGGAACTAC  | 56280 |



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|------------|------------|------------|------------|------------|-------------|-------|
| TCTGAGCAAA | TCTCCTCTAT | ACGCTTTTTG | AAAAAGTCTA | GGCTGAATAT | CTTCGATTTC  | 56340 |
| CCAAACAAGC | TGCATAATTC | TTTCTCTACT | TCCAAAAAAT | TGAGGGTTAG | CAACTACATT  | 56400 |
| ATTTTTCAAA | AGAATAGGAA | AATGATTGCC | TCTTGGCCCT | ATCGCAAGTT | TATTGGCGCT  | 56460 |
| TCTGATAACT | TCAACTTCAT | CATGTGCAAT | AGTTGATTCA | GTAGACATCC | CAATATTATT  | 56520 |
| CATTTTATTT | TGAATTTCAA | AAAGCTCTCT | GTTAGTATCT | TCAATTTTAT | TAATAAAAAAC | 56580 |
| ATTAATATCC | CGATTTGATT | TAATAAGATC | ATCAACATAA | TTACTAGCAA | AATTTAAAGG  | 56640 |
| CTTTAAATC  | GAATTAGGAT | AAGAACTCTG | CACTCCGTAT | TCAGTCATAT | AAGTTAAATC  | 56700 |
| GCTTTGACTA | TTATTTGAAA | ATAAAAAATC | AAACATGCTT | CTTAACTTAC | TAAGAGCCTC  | 56760 |
| TTTTCTGATC | TTATCAGTTC | TCTTAAGGCT | ACTTTTTGCA | AAATCAATAT | TTGCCAAAAG  | 56820 |
| TTTTTCTTTC | TTATTAAGTA | AACTTTTTTC | CATATCTTCT | TCTTTAAAT  | TATCCGTG    | 56880 |
| CAAATCGGTT | GCTAATCTAC | TAAGCTTAAA | ATTATTAACC | CCATAAAGCC | ATTCATCAAA  | 56940 |
| ATAAATAAAA | GACTCATTAT | AATGATTGTC | CCAAATAGTT | TTTGAAATTA | ATAGCTGAAT  | 57000 |
| TTCAGATCCA | AGTGCATTTG | GAATAAGTGC | GGCAAATCTA | AATAAAATTT | TCTGCTCCAT  | 57060 |
| GGTCAATTTT | GAAATGTTTT | TTGCAATTGA | TCTGAGAAAA | GACCAATAAA | TGTTAATCAC  | 57120 |
| TTGATTATAT | TTTAAAACCC | TATCAACCTC | TTCTGACTGC | GGATTTAAAT | AATCTACCAA  | 57180 |
| AACTTTATGA | AGCTTAAAGC | CAATTTCTTT | ACTGCTTGAA | ATAAGATTTT | TATAAAAAATC | 57240 |
| TTTAGTAAAA | AATTGCTTAT | CATGCTCCTC | TAAAGTTAAA | ATATTTGGCA | ATCTCGAATT  | 57300 |
| TAAATCTGTA | TCTACAGAAT | CAGGATACTT | ATACAAACTA | CCCCCAAAAA | CACCCACAAG  | 57360 |
| CAATATAGCG | ACACAAGTAC | AATTGTAAC  | CTAAAGTTTA | TATTTACAAA | AAAATTTAGT  | 57420 |
| ACTATTTATT | ATACACAGTG | TACCTTAAAT | CTCTGAAAGG | AGAAGTCATA | TGAATATAAA  | 57480 |
| AATCAATTTT | TTTTTCACTT | TGCCTATTGG | AATCTTTTTA | GGATTGTTTT | TCCCTCTTGG  | 57540 |
| AATTTATAGC | TCCTTATCAC | ATGCTTTTAT | AAGATTATCA | TACTTATCTC | TTATTCCCTT  | 57600 |
| TTTAATATTT | TCAATTCCAT | TAGGAATTGA | AAATATTATT | GAAAATAAAA | ACTTTAAAAA  | 57660 |
| GCTTTTTGGT | AAAACAATTT | ATTATGGAAT | TTTAACTAAC | CTATCTGGAG | TTGCTGTATC  | 57720 |
| AATAATAGCT | GCAACAATAT | ATCTTCCGCA | AAGAATTCCA | ATACTAGAAA | AAACAATACA  | 57780 |
| AAATACATGT | TTTTTTGAAA | AAGAAGCTTT | ACTAGAAACA | TTCTTTCCAA | AAAATATTTT  | 57840 |
| CAAAATATTT | ACATCTAGCA | ATCCAAATCT | ACTAAGCATT | TACATGATTT | CAATAATAAT  | 57900 |
| AGGCACAAGT | TTTTATTATG | CAAAACAAAA | AGGCAGAATA | GCTAGAGAAC | TGATGCTAAG  | 57960 |
| CGCATCCAAT | CTTTTTTACC | ATGCAAATGG | GTTTATTGTA | AACATATTAA | ATATAGGGAT  | 58020 |

|            |            |             |             |             |            |       |
|------------|------------|-------------|-------------|-------------|------------|-------|
| CATTTTTATA | ACAGCAAATT | ACGCTGCAAA  | CTTAAAAAAC  | TTCAAAGATT  | ACCCAAATTA | 58080 |
| TACAAACAGC | ATAACATTCT | TTTTGGCATG  | GACAAATTATA | ATTTTATTCTG | TAATATTGCC | 58140 |
| AACAATTAGT | TATAGATTAA | CAAAAAGTTT  | TAAAATGATA  | TATAAAGGCA  | TTTTTGTATC | 58200 |
| ATTTCAAAAC | ATAATATTTT | CAGGACTTGC  | AAAAGATTCT  | TATTCCCCTT  | ATGTGATATT | 58260 |
| AATAGAAGAT | ATTAAAAACG | AAAGAATAAA  | TATAAAAAAA  | TCCATAATTA  | TAAACATACC | 58320 |
| TTTAATAAAT | TTTGTATCTA | AATTTGGCAC  | TATTTTTGTG  | TCAGTAATAT  | CATTTTTTAT | 58380 |
| AATTTTAAAA | TCATATTCTA | GCTTACCCAT  | TTCTATTTAT  | GAAATAAGCT  | ATATGAGCAC | 58440 |
| TTTATCATTT | GTTTTTGTCT | TTGCATTTCC  | TCATATACCA  | AATAGTTTAA  | TTTATATAAT | 58500 |
| TACAATGCTT | TGCTCTACAT | ATACAAAAGG  | AATAGAGCTA  | AATGTTTCAA  | ACATAACACC | 58560 |
| AATGCTGCCG | ATATTAATCT | CTTTGGCTTT  | ACTAATCGAC  | TTTGCTTTTA  | ACATTGCAAT | 58620 |
| CATTCATATA | ATAAACTTCA | AAGAATTAAA  | AGATCAAGAA  | AAAATTAATT  | AAAGCTAAAC | 58680 |
| AAATTAATAG | GATTTGGCAA | ATAAAACAAA  | ATATTTAGCT  | TTAGATGAAC  | AATAAATACA | 58740 |
| AGTCATGCCT | GTAAATCTC  | TGGCCTTAAA  | ATCATCGGGG  | ATACATCTTA  | TTGTGGCTTT | 58800 |
| AGTTTCATTT | TTAATAATAT | TTTCACAATT  | CAAAC TGCCA | CACCAACAAG  | AAAGCACAAA | 58860 |
| TCCAGAATAA | TCATTCACAT | AGGCTTTGAA  | TGTCTCATAA  | CTATCCTTAC  | TGCTTCTAAA | 58920 |
| AATCTCCTTA | GTATTCAAGA | TCCTAAAATT  | TAATGCTCTT  | TGAAATAAAT  | CTTTTTGCAT | 58980 |
| CAAATCAAGC | TCTACCTTAA | CCTTGCTTAT  | AAGAGAATCA  | AGTGATATTT  | GATACTTAAA | 59040 |
| TTTTCTGTCT | TTATCTCTTC | TTGAAATAGT  | AACGGAATTT  | AAAAGGACAT  | CATTTATCCC | 59100 |
| CACTTCAAGG | CGTATTGGAA | TTCCTTTAAA  | CTCGGCAGAT  | GAAAATCTAA  | ATCCCGGAGA | 59160 |
| ACTTCTAACG | TCCTTATCAA | TTTCAACCCT  | AAATCTGCT   | TTTTTTTAAAG | CATCCACAAC | 59220 |
| ACAATCAGAA | TAATCTAAAA | TTTTTTTATT  | AATCTCATCT  | TCTTTTTTTAA | AAATAGGAAT | 59280 |
| AACAATAATT | TCTATTGGAG | CAATGCGAGG  | CGGCAAAACT  | AAACCTTTCT  | CATCAGAATG | 59340 |
| AACCATAATC | AAAGCACCAA | TCAATCTGGT  | AGAAACACCC  | CAGCTACTAG  | CAAATACATG | 59400 |
| CCGCATCTTG | CCATCTTTGT | CTTGAAATTT  | TACATCAAAT  | GCCTTTGCAA  | AATTTAAACC | 59460 |
| TAAATAATGG | GATGTAGCGG | CTTGAAGCGC  | TTTTTTTATCT | TGCATTAATG  | CCTCAATTGA | 59520 |
| ATAAGTAGAA | ACAGCCCCCG | CAAATTTTTTC | CTTTTCAGAT  | TTTTTACCAC  | AAAACACCGG | 59580 |
| AATGGCCAAA | TAGTCTTCTA | TGAATCTTTT  | ATATACATCT  | AAAATAAGTA  | AAGTTTCTTC | 59640 |
| TAATGCCTCC | TCTTCGGTAG | CATGAGCAGT  | ATGTCCTTCT  | TGCCATAGAA  | ATTCGGTAGT | 59700 |
| GCGCAAAAAA | GGCCTTGTTT | TCTTTTCCCA  | ACGAACAACA  | TTTGCCCAT   | GATTAATTTT | 59760 |
| AAGAGGAAGA | TCTCTGTAAG | ACTTAATCCA  | CTTACTATAC  | ATATTCCAAA  | TAATTGTCTC | 59820 |

|             |            |            |             |            |             |       |
|-------------|------------|------------|-------------|------------|-------------|-------|
| AGAGGTAGGC  | CTTAAAACCA | AAGGCTCTGC | CAAACCTCTCT | CCACCAGCAT | CCTTAATAAT  | 59880 |
| AGCAAACCTCG | GGTGAAAATC | CATCAATATG | ATCCTTTTCT  | CTTTCTAAAA | AACTATAAGG  | 59940 |
| AATAAGCATA  | GGGAAATATG | CATTCTCGTG | TCCCGTCTCT  | TTAAATTTTT | TATCAAGTAT  | 60000 |
| ACTCTGAATT  | TTACTCCAAA | TAGAATACCC | ATAAGGCATA  | ATTACCATAC | ATCCTTTTAC  | 60060 |
| AGGACTGTAA  | TCAGCAAGTT | TTGCTTTCTG | GACTATATCT  | AAATACCATT | TAGAATAATC  | 60120 |
| ATCTTCTTTT  | GATGCTATAA | AATCACTCAT | AAATTATCCT  | CAATAAAGCA | TTTCACTTCT  | 60180 |
| TTAAAAAACT  | AAATAATTAT | ATTCAATATT | TTTTAACTTC  | AACCATAAAC | CGTTTATACC  | 60240 |
| TATTTCCATA  | AGAATTTAAC | ATGATTTTTT | CCAAAACAAA  | AACAATTCCA | TCTTCATTTG  | 60300 |
| GAAATAAAAC  | AATCTCTCTT | ATTCTGTAAT | CAATAACATT  | CTTTCTATAA | TAATTTCCCTC | 60360 |
| TTCCAACAGT  | CAAATGCTTT | TCTAGAGTTG | AATTACAATA  | TCTGACAGAT | AAAAAAATAT  | 60420 |
| TAAAAGAAGA  | AGAAAGTTCT | TGGGAATTAA | TATCCTTATT  | TACAAAAACT | TGATATTCGT  | 60480 |
| TTCTGTTTT   | AAAATCAACA | AAATTTAAAA | AATCTGTTTC  | TGGAATTTCA | CTTTTACAT   | 60540 |
| AAAAATAAAT  | TTACGCCCCT | CTTCTTAAAT | GATTAATTTT  | AAATTCCTTA | ACTTTAAAAAT | 60600 |
| TAATCATCTT  | TAAAAGCTCA | TAAAGACTTT | TATCATAACT  | GTCTGAATAC | CCAATGTGCT  | 60660 |
| CTTTAAAAAGT | CTTAGAATGT | ACTCCAGAGT | TTGCAAAATT  | ATTTTAAACA | ACATCAACAA  | 60720 |
| AGTATGCAGC  | AGAGTAATAA | TATCCATTTT | CAAAACCATA  | TCGCCCAAAC | ATAAAATACC  | 60780 |
| GATCATTATT  | AGAAAATCCT | AAATTTTTTA | AAAAAATATT  | TTCTGGAAAC | CCCAACAGAA  | 60840 |
| AAGAAAAAAA  | ATAAAAAAAA | ACGATATATA | GTTTAATCAT  | AAGCTTTGTA | TAAGTTTAAT  | 60900 |
| AACAATAAAT  | TATCTACTAA | ATCTTATTTA | TAATTAATTT  | AGCCTTACTT | AAAATAATAT  | 60960 |
| CAAAACAGCA  | TTTCAAATTC | AAAACCTTGA | TATACTATTT  | GTTTATAGAT | TAAAACTTA   | 61020 |
| ATATTTAAAT  | TTTTGGGATA | AATTTTTTGA | AAAAAGAATT  | AATGGCCTAA | AGTTAGCTTC  | 61080 |
| AAAAAGCTTG  | AGGCAAATAA | AGTTTTTTTT | CCATAGTTTT  | ATAATAAAAC | ATTGCAAAAA  | 61140 |
| AACTTATTTA  | TTGCAAATTC | ATAAATTTAT | ATTTTTTTCA  | AAGGCCAAAA | AATCAAAACA  | 61200 |
| AAAATATCTT  | CCCAAAAATC | CTTTACAAAC | AAACAAGATT  | AACATCAATA | TACAGTCAAG  | 61260 |
| TAGTATAATA  | ATAGCTGTAT | TTGTGATTAA | AAATTTTTTG  | ATAACCAAAA | CCTTGATAAA  | 61320 |
| CAAAGCGATA  | AAAAATTCAA | CAATAAAGTT | TTGCTATCAA  | AATAAGCAAA | TAAATATCAA  | 61380 |
| TATTTTTAAT  | TTTTTATGCT | TTATTAAAAA | TATTGTAAAA  | ATAATTTCTA | AAATTGAAAA  | 61440 |
| TAAAAAAGGA  | GAATTTCAAT | GAGAATGCTA | TTAGCAACAA  | TAATACTTAT | ATTAACAACG  | 61500 |
| GGTTTATTAG  | CTGCACAATC | CAAAAGCAAA | AGTATGACTG  | AAGATGACTT | TGATTTTGAT  | 61560 |

|             |            |            |             |             |            |       |
|-------------|------------|------------|-------------|-------------|------------|-------|
| AAACTTCTTG  | CAAAAGAAGA | GTCTGTGCGC | CGTTTATTTG  | GCATAGGTTT  | TGGAGTTGGA | 61620 |
| TATCCACTTG  | CAACATTAC  | AATATCTGTT | CCATATGTAG  | ACATAGACCT  | TGGGTACGGA | 61680 |
| GGATTCGTAG  | GGCTTAAACC | CAACAATTTT | TTGCCCTATG  | TTGTGATGGG  | TGTAGATCTT | 61740 |
| CTATTTAAAG  | ATGAAATACA | CAAAAACACT | ATGATTTCTG  | GAGGCATTGG  | AATAGGTGCA | 61800 |
| GATTGGTCAA  | AAGGAAGTCC | TGAAAAATCA | AATGAAAAAC  | TTGAAGAAGA  | GGAAGAAAAT | 61860 |
| GAAGCACAAAC | AAGTAGCTTC | TCTTCAAAAT | AGAATAGGGG  | TTGTGATAAG  | ATTGCCTTTG | 61920 |
| GTAATAGAGT  | ACAGCTTTCT | TAAAAATATT | GTGATTGGAT  | TTAAAGCTGT  | TGCTACTATT | 61980 |
| GGAACAACATA | TGCTACTTGG | CAGCCCAATG | TCATTTGAAG  | GAGCTAGATT  | TAATTTCTTA | 62040 |
| GGCACAGGCT  | TTATAAAAAT | ATATATATAG | TGGAGAATAA  | ATGATAAAAA  | TTTTTAAAAA | 62100 |
| AATATACATT  | TTAACATTAG | TATTAGGTAT | GGCACACCTT  | TCTTTTGCAT  | CTGACAATTA | 62160 |
| TATGGTCAGA  | TGCAGCAAGG | AAGAAGATTC | AACCACCTGT  | ATCGCAAAGC  | TTAAAGAAAT | 62220 |
| AAAAGAAAAG  | AAAAATTATG | ACTTATTTTC | AATGGGCATT  | GGAATAGGAG  | ATCCTATTGC | 62280 |
| AAATATTATG  | ATTACAATTC | CTTATATAAA | TATTGATTTT  | GGATATGGAG  | GTTTTATTGG | 62340 |
| CCTTAAGTCA  | AACAATTTTG | AAAATTATCT | AAATGGTGGA  | ATAGACGTTA  | TTTTTAAAAA | 62400 |
| GCAAATTGGA  | CAATATATGA | AAATTGGCGG | CGGCATTGGA  | ATAGGTGCGG  | ATTGGTCAAA | 62460 |
| AACATCCCTT  | ATACCCCTTA | ATGAAGAAGA | AGAACTGAT   | TATGAGAGAA  | TAGGCGCTGT | 62520 |
| TATAAGAATT  | CCTTTTATAA | TGGAATATAA | TTTTTGCAAAA | AATTTATCCA  | TAGGATTCAA | 62580 |
| AATTTATCCT  | GCAGTAGGGC | CAACAATATT | ACTAACAAAA  | CCAAGCATTT  | TATTTGAAGG | 62640 |
| AATTAAATTC  | AATTTTTTTG | GATTTGGATT | CATAAAATTT  | GCATTTAATT  | AACCAAATAA | 62700 |
| TTAAATTGGT  | AATTAAATTT | AAGCTCGCAT | AAGCAAGCTT  | AATTTTAATT  | AAAACCAGCA | 62760 |
| ATAAAAGCTT  | CGCCGTCCCC | ATCAATAAAC | AAGTTTTCTG  | CTTTTTTTACC | TATAAATATG | 62820 |
| CTCTCACCTT  | TCTTAAGATT | TAAGGATTTA | TTTATACTCA  | CGCACCCATT  | TAAACTAGC  | 62880 |
| AAGACCATTG  | CACATTTTCT | ATTAATACAA | ATGTTCTCAT  | TTATTTTTTTT | TTGAATCAAT | 62940 |
| TTCAAATTAG  | TATTTGGAAG | TCTAAATACG | CTAAAATTAT  | CTTGAAAATC  | GGGATTTAAA | 63000 |
| AATGATAACT  | TTCCTTCCTC | AAATTGACCA | ACTCTTAACA  | TCTCGTCTTT  | ATCAATATAC | 63060 |
| TTTGTAGTAA  | GCCCAGCCCT | AATAACATTG | TCGGAATTGG  | TCATAAGCTC  | AATGCAATCT | 63120 |
| CCCTTAAGAT  | ATGCATGCAC | CTCCTGACTA | TTTGTATAAA  | CAACTTCTCC  | TGGTTTTAGT | 63180 |
| TTTAAAATAT  | TCATACCTAA | AAATACCAAA | AGGCCACAT   | CTATACCATA  | AATATTGTAA | 63240 |
| ATTTCATTA   | ACCAATAGCC | CCTAAAATTA | TCAATAAGAT  | CCAAATTTTT  | TAAAATTTTT | 63300 |
| TCAATAATCT  | TCTCAAGTTC | ATACATTTGT | AAATCAAAAA  | TAGTCTTTAC  | AAAATCTTTA | 63360 |

|            |            |             |             |             |            |       |
|------------|------------|-------------|-------------|-------------|------------|-------|
| TGTGATTGAA | AGTCGAAATT | TAATTCCAGA  | ATTTTCATAAA | TTTTTTTAAAT | CTCATCTAAG | 63420 |
| GGTAAAAAGC | CTTTAAGAGC | ATAAAAATCA  | CTAAGAGCAT  | AAATAAGTTC  | AATTTTGGGG | 63480 |
| TTTTTGTCTT | TGTATGTCCT | TTTGGGATCA  | TTAATGTCTA  | TCCCTTTATT  | ATTCTCTGAT | 63540 |
| TCATACCTTT | TTAAGGCAAT | ATCTTTAGAA  | GGATGAATTT  | GAATAGACAG  | GGGCTTATTT | 63600 |
| GCAGACAATA | CCTTAAGCAA | AAAAGGAAAT  | TCGTCATTAC  | AGCCTAAAAG  | CTCTTTATGA | 63660 |
| TCTTCTAAAA | AATCGCTTAA | AAGCACATAT  | TCATTTTTAT  | ACAAAATCTT  | ACTAGAAAAT | 63720 |
| GTCTTGTGTG | CTCCAAGCCA | CATTTTCAGCC | TTGGGCTTTC  | CATCAATCTT  | ATCACCCAAA | 63780 |
| AGATTGGGAA | TAAAATTAAT | TCCGCCCCAA  | TCATATTCTT  | TAATATTATT  | TTTCATTAAA | 63840 |
| AAAATATTAT | CTTCATTATT | CATTCAGATT  | CCTTTAATTT  | TAAAGATTTC  | AAAAAAATTA | 63900 |
| CCAAAGCTGT | TGCAACCGCA | ACTCCAACAG  | CAATTGCAAT  | AATAAACCCA  | AATTTATTAT | 63960 |
| CAATAACAGG | AAGTACTATT | GGTCCTCCGT  | GTGGAGCATG  | ATTAGCAACG  | CCTAAAAAAG | 64020 |
| CGGCAATAAT | GCTTGATACA | GCTCCCCCTA  | CCACTATCGA  | AGGGATTACC  | CGTCCGGGAT | 64080 |
| CACTAGCAGC | AAAAGGAATA | GCTCCTTCGC  | TAATACCAAT  | AAATGAAATT  | AAAAAGGCTA | 64140 |
| TTTTACCAGA | TTCTTTTTCT | TCATTTTCAA  | ACAATTTAGG  | TGCTAAAAAG  | GTTGCAAGCC | 64200 |
| CCATAGCCAT | AGGAGGAACA | GGAATTGCTG  | CTGCTACCAT  | TCCCATTATT  | TCTGGCACTT | 64260 |
| GAGGAATTAG | CCCTACACCA | AAAAGAAATG  | CCACTTTATT  | AAAAGGTCCG  | CCCATATCAA | 64320 |
| CAGTAATCAT | TGAACCTAGT | ACTAAGCCTA  | AGAAAATTTT  | ACCCAACACG  | CCAAAAGTTT | 64380 |
| CCGAATTACT | CTGTAAAGAT | TTAAGCCCAC  | TCTCAAGCAC  | CCCCATAAAT  | TTTCCAATAT | 64440 |
| AAACACCAAA | ATACAGCATA | AAAAAGCCGA  | CAATAATGGT  | GCTTATTAGC  | GGAATTACAA | 64500 |
| ATATAGGCAT | TACAGGTCTT | AACCACTCAG  | GAACAGATCT  | TCTTGCTAAA  | AACCTTGCAA | 64560 |
| CATAACCTGC | AAGAAAGCCC | GCAAATATTG  | CGCCCAAGAA  | ACCTGCTTTT  | ACATTCCCAG | 64620 |
| ACATTACTCC | ACCAACAAGA | CCGGGGGTAA  | GACCAGGCTT  | ATCAGCAATT  | GCCATTGCAA | 64680 |
| TAAAACCAGC | AAGCACGGGC | AACATCATCC  | CAAAAGCTAT  | AGAACCAATA  | TCTGCAATCT | 64740 |
| GCTTATAAAA | TGGATGCTCA | GCAAAATTAG  | GCCCATCAGG  | TCCAATCCCA  | ACAAAAGCAA | 64800 |
| TGCTAAGAGC | AATTAAAATT | CCTCCACTTG  | CAACAACAGG  | AATCATTGGA  | GATACCCAC  | 64860 |
| TCATTAAATA | TTTATAAAAA | CTACCTTTGC  | CTGTTGCAAC  | CGAAGCTTTA  | GTATCACTAT | 64920 |
| TAGTACCGGA | GTCTTTGCTT | TTAAATACCG  | GAGCATTAAA  | AGATTCCTTA  | ATAATATTTT | 64980 |
| CTGTATTGTT | TATCGCTTTT | ACAGTTGAAA  | CTTTATAAAC  | TCTCTTACCT  | TCAAATCTCT | 65040 |
| TTTCATCAAT | ATCCTTATCA | ACAGCAAGTA  | TTACAACGGA  | CGCATTCCTA  | ATTCCTCTT  | 65100 |

|             |            |            |            |            |             |       |
|-------------|------------|------------|------------|------------|-------------|-------|
| CTGTTAAGGC  | ATTTTCAATA | CCAATAGATC | CTTGAGTTTC | TACTCTAATG | CTATAACCCT  | 65160 |
| GCTTTTTAGC  | TTCATTTTCA | ATTTTCTTAG | CTGCAATATA | CGTATGAGCA | ACTCCAACAG  | 65220 |
| GACAAGCAGT  | TACGGCCACT | ATTTTTTCTG | CTTTTGTAGC | TCCAAAAACC | TCTTCTTTAG  | 65280 |
| CCTTTCTTTG  | AACATTTTCA | ATATAATAAT | AAATGTCATC | AGTAGTAACA | AACCCGCGTA  | 65340 |
| AAGCATTTTG  | AAAAGCATCA | TCTTCAAATA | GTTTAGCTAT | AAAAGCAATC | GCCTTAAGGT  | 65400 |
| G TTCATTACC | TTGTTGTTTT | TTTGACATAC | AAATCAAAAA | TATTAAATTA | ACAGGGGGGT  | 65460 |
| TTTCTTCAGA  | CCACTTAACC | CCAGAACCTT | TAATGTAAAG | CAATGAAATA | AAACTAGTCT  | 65520 |
| TAACAACATC  | TCCTATAAAA | TGAGGAATTG | CAACCCCAT  | TTCCCAAGAA | GTGTCACCTA  | 65580 |
| TCTTTTCTCT  | ATCAAGAATT | CCTTGAAGAA | ACTCTTTTTT | ATTATCTATA | TATCCCTTAT  | 65640 |
| CATTGATTTT  | TTCAATTAAA | AAATCAATTA | CATCTTCTTT | TGAATTTACT | TCTGGCAAAA  | 65700 |
| CAAATACAAG  | ATCTTTTTTC | AAAAAATTAA | AAAACATAAC | TGTGGTCTCC | TAGTAATTAA  | 65760 |
| ACATATTGTA  | TAATATACAA | TAAAAATAGC | ATACCACAGC | CACCTAATAT | AAAAAATATT  | 65820 |
| TTTTTAACTA  | AACAGGGAAA | TTTTATCTAA | ATACATATCG | CAATATTGAA | AAGGTAAAAAC | 65880 |
| AATTTTTATA  | TTATTTAAAA | TAATCAGTTT | ATGAAAAAAA | CTCCAAACAC | TTGTATTTTC  | 65940 |
| TTAACATTGC  | TTATCATTTT | CAATTTAAAT | GCACTTGCAA | ATGAAGAAGG | CAATACTAAT  | 66000 |
| GAAAAAATG   | ATCAACCCAA | ACAAATCTCT | AATTTTTTTA | GCCCAGAAAG | AGGGTTCATA  | 66060 |
| TATTCAACAG  | GAATTGGGAT | TGGAGTTGGA | TTTTTTCTAA | ATTCAAATAT | TAAACACCTT  | 66120 |
| ATCTTTAGAC  | CTTATTATAC | ATTCTCTAAT | AATACTTTTG | ATTTTTTAAT | CGTTGCTATG  | 66180 |
| ATATTAACAA  | GGGAAAGCCT | TAATATCCCC | AAAAAATGC  | AATACTTTAA | ATCTTATATT  | 66240 |
| GGAGGAGGAA  | TAAACTGGCA | CATTGCAAAC | TTAATTAAAA | AAACAAAATA | TTTTTCCGCC  | 66300 |
| ACCATTGGCA  | TAGGTGGTCG | TTTTTACCTA | TCTACAAACT | TTATAGAAGA | CATTGATTTT  | 66360 |
| TACGAAAAAT  | TGCCTTATGT | AATAGAGCCT | TATATGTTTA | TTGAAATTTT | TTCTAAAAAG  | 66420 |
| GCAATTCCTT  | TAATGGGGTT | AGACTTTAAA | ATTGATTTTT | TATTTTTAGA | TACATTTAAC  | 66480 |
| ATTTCTTTTA  | ATTTTACTAT | TAGATATAAT | TTTAAGGACA | AAAACGAGAT | GGAAACATGA  | 66540 |
| AAAAAAGGTC  | GAAATTTTTT | CTTTACTGCT | ATATTTTATG | CCTAACAGGA | TTTTTATTTT  | 66600 |
| TTTCATTAAA  | TCCAAAAGCC | CTAAAACAAA | TTAAACACAA | ATTTATGACT | ATTTAGAAAT  | 66660 |
| AATAGAAATA  | ATACACTGAC | ATTACAAAAT | CTATTCCAAT | AAAAGAAGCC | CAATTAATAC  | 66720 |
| CAAAGGATA   | TCTTACTACT | CAAATAATAA | GCAAAAAACA | CTATACCTTA | GGATATGCTG  | 66780 |
| AAAGCGCAAG  | ACAATCTGAA | TGGGCTGCTT | ATCCGCTTAA | AAGAGAAATG | GTAGAACTAG  | 66840 |
| CATTAACTTT  | GTAAAAATCA | AAAAAATTA  | AAAGAAGTAC | CAAATCTTTT | GAAGACACCA  | 66900 |

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|---|-------|
| ACATTAAGGG CGCTTTTCCA AAAC TTGAAG ATTACTTTTAA AAGCGGTAT GACAGAGGAC  | 66960 |
| ACATAGTAAG TTCTGCAGAT ATGTCTTTTT CTGAAAATGC AATGAAAGAT ACATATTTTT   | 67020 |
| TATCAAATAT GTCACCTCAA AAAAGCGAAT TTAATCTCTGG AATTTGGCTA AAAC TTGAAA | 67080 |
| AATTAGTAAG AGAATGGGCA ATCTCAAAAG GATATATATA TATTATTAGC GCTGGGATTT   | 67140 |
| TAACAGAAAA TAAAGGATTT ATTGGTAAAA ACAAATTTT GATACCTAAA AATTTTTATA    | 67200 |
| AAATAGTACT GGCAATTAAT AATAACAATT ATTATGACAT AATCTCTTTT ATTATCCCAA   | 67260 |
| ATGAAAAAGC AAAAGACTTG GATTTGGAAA ATTATGTTGT TAGCGTTGAC TTAATTGAAA   | 67320 |
| AAAAAACAAA GATAGATTTT TTTGAAAAAC TTGATTCAAA AATTAAAAAA AATATTAAAA   | 67380 |
| AAATAAAAAA CACGCATTCT TGGAAATTTA AATGAAATCA ATATTTGCAA AGTTAAACGC   | 67440 |
| TTCTATCAAT CTCTTTCTTT TTATAATTTT TATTTTGGCA ACAATAGTTA TACTGACTTT   | 67500 |
| CTCCTATAAA ATAAATATA ATGAAACTA TCAAATTAT ATTCTAGAAA TTTACAATAA      | 67560 |
| TAATTTTATA ATATTGGTTA ATAAATTAAC CATCTTTATT GCTGGGATCA TAGGCTCGCT   | 67620 |
| GTGGTCATAC ATTAAC TACA AAAGAACCAA CAATATACAA TTTATATTTT TCTATTGCTT  | 67680 |
| TATTAGCTCA TATACATTAG ACCCTATTTT AATCTCTGAA GATTTTTTTT TAAAAACAA    | 67740 |
| TCTAAATTCA AGTTATTATT TGTTTACAAA ATTTATCCTT TTTGTAAACA CTTTTTCATT   | 67800 |
| ATTAAATTTA TTTTTTCTCA GTTTATATAT ATGCGATTTC AAAATAAAAT CAATACATTA   | 67860 |
| TACAATTTAC ATTATTTTGA TCTTTGCCTG CATATATAGT TACACAATGC CTATTAATTC   | 67920 |
| GTACGAAAAT AGCCAAAACC ACGGAATTCT TAAAATAGAA AATACAAAAT TTTACATAGA   | 67980 |
| TGCATTCTTG CTAATTATTT TAACAAACTT TATAGTAGCC TTTTAAAGAA AAAAAAGCTT   | 68040 |
| TGACTATTTT TTCCTTTTGT TTTCAATGCT TTTAATATTA AGTGGAATTT ACTTGAATTT   | 68100 |
| GCTAAAAATG CCTTATGCCT TTCTCCCAAT CTCAATTGGT ATACCAATCT ACTTAAAAAA   | 68160 |
| ATCAGGGAAA ATTTTCTTTT ACTGGCTATA AAAAAAGAA GTTAAAAAAT AGGACGAAGC    | 68220 |
| TGAAACAACA AGCGGTAAAA ATAAATTGTC ATAATTAGCA GCATCAAAAA GCTCTACCAA   | 68280 |
| TACTGCTAAA ATCCCAAGAA TTAAAGCTAC TGTCAAATAA GGAAAAAAT AATAATATGA    | 68340 |
| AAAAAAGTA ACACAAAATA CAACAAGACT GCCAGAAATC GTTTTACCAT TTACAAGCTT    | 68400 |
| AAAAGAAGGA ATTAAC TTTC CAATAAGACT TGCAAATCCA TCACCAAGAC ATACCGAAAA  | 68460 |
| TATTCCAATA TAATTAAAAAG GATGCATAGA TAAACAATAT GATATCAATA TACCTAAAAA  | 68520 |
| CAAAAAGACA GGAGAAAAAG ATACTCTATT GGGCAATATT TTTCTTGATT TTAATATTAT   | 68580 |
| GTTTGAAATG TTTTAAAGA AAAGTATTTT TTTTTCAGTA ATTCTAAAAA TTTCAGAACT    | 68640 |

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|--|-------|
| TAAGTATAAAA ATCATAAAAA GTATATTAGA AAAAAGCCCT ATCCAAAAAT TTATTCTATA | 68700 |
| AAAAACTAAA ACTATTAAGC TAAAAATATG AAAAAATTTT CTAAAAATTT CATACTTAAT  | 68760 |
| ATCTTCTCTA AGAATTGTTC TTTTAACTC ATCAAACATC ATTTGATCTT TTTAAATGC    | 68820 |
| ATATTAAATC GACATTTGAA AACATTTTTT CCAACACTCA TTAAATTCCT CATTTATTGC  | 68880 |
| TGCAAATAAA TTAAAATAAA CAAAAACCTT TTTATAAACC TATGTCTTAT AATAAAATTA  | 68940 |
| CTTATATTAA TTTTACAATT TTTTTTCAA AAAAAATATC TTACCTAAGA GATTTATTAT   | 69000 |
| AAATAGGCAA TACTTATTTA TAAAGAGAAG AATTAAGCAG GTTCCCAAAA ATGCTAGAAA  | 69060 |
| TTGAAGATAA ACTATTTTTA AAATTTTGTG ATTTTATATA TAACAACAGT GGAATTCGTT  | 69120 |
| TTGATGAAAA AAATAAATTT GTTCTTCAA GCAGAGTGAA TGATGCAGTA CGAGCTCTTG   | 69180 |
| CTCTTGAAAA CCCATCACAA CTTTATAATT TAATAATTAG TGAAAAATTA AAAAAAGAAT  | 69240 |
| ATTTCTTAGA TTTGGTCACA ACAAATTTAA CAAGATTTTT TAGAAATTCG CTACATTTTC  | 69300 |
| AAACTTTTGA AAAATTTGTA ATTCCGAATT TAATTAATAT TAAAAACATA GAAAAAAAAA  | 69360 |
| ATAGGATTAT CATCTGGTCT GCGGGATGTT CAACAGGAGA AGAGCCTTAT TCATTAGCAT  | 69420 |
| TTGTACTCAA ATCAAAGCTT CCAAAAAGAAA TAGATTTTGT TATTATTGCT TCTGATTAA  | 69480 |
| GCTTAAAAATC TTTGATGATA GCAAAGGAAG GATATTACTC ATCAAATAAA TGTGAAAATA | 69540 |
| TTCTTAAAGA ATACCGACAC TACATATATT CTCATTCAA CGGATATAAA ATTAAAAATG   | 69600 |
| AAATTAAAA TCACATAAGA TTTGATTATC ATAACTTAAA CTTTGAAAGT AATTTTTTCGG  | 69660 |
| AAATTGATGT TGTTTTTTGT AGAAATGTTT TAATATACTT TGATGAAAA TCAAAAATAA   | 69720 |
| AAGTACTTAA AAAATTTTAC AACAATATGT CTAAAAACAG CTATTTATTT ATAGGACACT  | 69780 |
| CAGAATCACT TTTTGGGCTC AACCTTCCTT TTAAATTTTT AAAACACCT TGGGCAATAA   | 69840 |
| TATATGAAAA AAAAGATACT GGCTGTCAA AAGAAAAATT CAAATCACAA AATAAATATA   | 69900 |
| AGTTATAATT TAACAAGAAT AAAATGGGAA AAAAGTAACG GTGGAAACAA AAATTTCTGT  | 69960 |
| ACTTATCATA GAATACTTTG CTGTAAAGAG AAAACTTATA TCAGACCTTA TCAATTCATC  | 70020 |
| TCCAAAACTC CAAGTCATTG CAACTGCTTC TAACAGCAAA TTTGCAACAA ATAAACTTAA  | 70080 |
| AAAACATAAA CCCGAAGTAA TATTAATGAA TTTAGAAGAG AACAATATTA AAGATATTCT  | 70140 |
| ATTTTTGGAG GAAAAAACA GTTTAAACAA AACAATACCA ATTGTCGTCA CATCTTCAA    | 70200 |
| TCAAAACCTA ATAAATATTG CTGCTTCAA GGGCGCCGAT GATCTTATAT TAGTATCTAA   | 70260 |
| AAACAAAAAA TCACATGAAA TCAAAAAAGA ACAAATTATT AATTCTCTTT TGGCCTATGG  | 70320 |
| ATCGATATCT ATAAAAATA AAATTGCCTG CAATAAGGAC ATGAAAACAA AAAACTACGA   | 70380 |
| AAGAGCTAAT TTTATTTTAA ATCACAAAA TGACATTTCT TCATTAAATC AACTTGAAGA   | 70440 |



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|-------------|------------|-------------|-------------|-------------|------------|-------|
| ACATGCAAAA  | GAAAAACAT  | TAAATGAAAA  | AGAAATAAAA  | AAACTTAAAC  | TGAGAAAAAT | 70500 |
| TGACATAATA  | GCCAATTGGA | GTATCAGCGG  | GGGGGCCTGT  | AGCCTTGAAA  | TCAATATTAC | 70560 |
| CAGAAATACC  | TGAAAGCTTT | CCGCCAATAA  | TAATTGTTCA  | ACATATGCCT  | AAAGGATTTA | 70620 |
| CAGAAGAATT  | TGCCAAAAAT | CTTAATAATC  | TATGTAAAAAT | AAGCGTAAAA  | GAAACCACCA | 70680 |
| ATAACGAAAT  | ATTAAAGCAA | GGATATGCAT  | ACATTAGCTC  | GGGCGGATAT  | CATACAAAAA | 70740 |
| TCAAAAAAAT  | CGATGGTAAC | TATCAAATAA  | AAACCCTCGA  | TGGTAAACAT  | ATAAATGGTC | 70800 |
| ACAAACCATC  | TATTGGGGTA | TTATTTCAAT  | CTATTGCAGA  | GATTGCAAAA  | GATAAAGCAA | 70860 |
| TTGCCATAAT  | AATGACTGGA | ATGGGAAATG  | ATGGATCAAG  | AGAAATTGGA  | GATATAAAAA | 70920 |
| AAGCTGGAGG  | ACTAACTATT | GCGCAAGATA  | AAGAAAGTTC  | TATGGTTTTT  | GGAATGCCAA | 70980 |
| AAATAGCAAT  | AAAGGAAAAC | AATATAGACT  | ATATAGTTCC  | ACTAAGCCAT  | ATGGTAAAAT | 71040 |
| TATTAAAAGC  | TATACTAATT | AATAGCTAAA  | TTTTTTTAAA  | CAAGGAATAT  | TTTTTGGACA | 71100 |
| ATAAAAAAGA  | AAACACCGAA | ACAGAAGACT  | GTTTTTCTCA  | TGTAAGTAAA  | TTTAATATAC | 71160 |
| ACAATAAAAC  | AATATACATA | CTTGGAAC TG | CTCACGTGTC  | AAAAAAAAAGC | TCAGAAGATA | 71220 |
| CTGCAAATTT  | AATAGAAATC | TTAAAACCAG  | ACTATATTGC  | CGTTGAACTT  | GATGAAGCTC | 71280 |
| GCTATCATTC  | GATCTTAAAT | ACCAATGAAA  | ATGAAAAATG  | GAGAAACTTA  | GATATAGATA | 71340 |
| AAGCATTTAA  | ACAAGGAAAA | GCTTTCTTTC  | TCATAATAAA  | CATAATTCTT  | AGTAATTTTC | 71400 |
| AAAAAAAATT  | AGCAAAAGAA | CAGGGAATAA  | AACCTGGTGA  | AGAAATGAAA  | ACAGCTATTT | 71460 |
| TAAAAGCTAA  | AAAACACAAT | ATTCCACTAA  | TTCTTGCTGA  | CAGAAAAATT  | GAAACAACAC | 71520 |
| TAAAAGAGC   | TTGGATATCT | ATTCCAATAT  | TTGAAAAAGC  | AAAAATAATC  | TCAAGCCTTT | 71580 |
| TTTCCCTAAC  | AGATGCAAAA | ATTACAAAAG  | ATGAAATTGA  | AAACTCAAA   | GAACAGGACG | 71640 |
| CTCTTTCAAA  | AATAATGGAA | GAAC TTCCA  | AAGAAATACC  | CAAAGTAAAA  | AAAGTTTAA  | 71700 |
| TTGACGAAAG  | AGACGAATTT | ATTACAAACA  | AAATACTTGA  | AGGAGAGGGC  | ATTATTCTTG | 71760 |
| CCATTGTGGG  | TGCAGGCCAT | GTAAGCGGAA  | TAATGAGAAC  | TTTAAAAGAA  | ATAAGTCAAA | 71820 |
| ATAAAAAAAT  | AATAAACGTT | GAAGAACTCG  | AGAAAATACC  | TAAAAACAT   | TTTTCATTTA | 71880 |
| GCAAAGTGCT  | ATCTTACTTG | ATTGCAATTT  | CAATCATTTT  | ACTAATAGTA  | AGCTCTTTTT | 71940 |
| ACTTTAAAGG  | ATTTGATTTT | GCTTACAAAA  | ATTTAAAGCT  | TTGGATAATA  | TCTAACTCTA | 72000 |
| TTTTTTTCAGG | CATCGCATCG | ATTTTATTAA  | AATCTCATCC  | CTTAACAATT  | TTAACAGCTA | 72060 |
| TTATAGGTTT  | TCCAATATTC | TCCTTAATAC  | CATTCATAGG  | AACAGGTATG  | GTAGCAGGGC | 72120 |
| TTGTTGAAGC  | TTATATAAAC | AAACCAAAAG  | TCAAAGACTT  | TGAAAATCTA  | CAAGAAGAAT | 72180 |

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|------------|------------|------------|------------|-------------|------------|-------|
| TGTCGACAAT | AAAAGGATAT | TTCAAAAACA | AAGTTACAAG | AATTCTATTA  | ATAGTGATTT | 72240 |
| TTGTAAACCT | TGGATCTACA | ATTGGAACAA | TCGTAGGACT | TAAATTTTTTA | TTAAATGTTT | 72300 |
| TCAAATAAAC | CCTTAAAATA | ACAAATATTT | AAACAGGAGT | ATATATGGGG  | CTTGTATTTT | 72360 |
| TAGGTCCTCC | GGGTTCTGGA | AAGGGGACTA | TTTCAAAAAT | TATTTCTAAT  | GAATTTAAAT | 72420 |
| ATCAACACAT | TTCAACAGGA | GACTTATTTA | GAGAAAATAT | TTTAAATTCT  | ACGGCTCTTG | 72480 |
| GGCAAGAAAT | AAAAAAAATT | GTTGAAAGGG | GAGAACTGGT | CCCCGACCTA  | ATTACAATCA | 72540 |
| AAATAGTAGA | AGATAAAATT | AAAGCTATTA | AAAAGAACAA | AGATTTTATT  | TTAGATGGAT | 72600 |
| TTCCGCGCAA | TATTTGTCAA | GCCGAGGCTC | TTGACAAATT | TTTGCCAAAT  | GTAAAAATAA | 72660 |
| TAAATTTTTT | AATTGATGAA | GAGTTAGTGA | TAAAAAGACT | CTCGGAAGA   | AGAATTTGCA | 72720 |
| AATCTTGCAA | TAATATTTTC | AATATATATA | CCCTAACAAC | AAAAAAAAT   | GGTATTTGCG | 72780 |
| ACGTTTGTGG | GGGAGATCTT | TATCAACGAG | AAGATGATAA | AGAAGAATGC  | TTAAAAACAA | 72840 |
| GACTCAAAGA | ATATAAATTA | CAAACAAAAC | CGCTAATAGA | ATTTTACTCA  | AAATGCTCTA | 72900 |
| GACTTAACAA | TGTTGATGCA | TCTGTTAAAA | TTGATGAAAT | AAAAAAAAG   | ATAATTAAAA | 72960 |
| TAATGTTAAA | AAAAAATTAA | ATGGAAAAGG | TATTTTAAAT | AAAATGTTAA  | TAAAAAAAAT | 73020 |
| TTGCTTTTGT | TTGTTACTTT | TGCAAGCAAA | AATAATTCTT | TCCCAAGATC  | AACAGAACTT | 73080 |
| AGAATTTAAT | AATGAATATT | TTTATTTTAA | TTTTCAATCT | GCTTATTATC  | CTCCCCACGA | 73140 |
| GCTGGGTACA | AATGGAAGCG | GCTTTTCACA | AAGCTTTAAA | CATCCTAACT  | TCCAAAATAT | 73200 |
| TGACCCAAGT | TTAAAAATTC | CAGTCAATTA | TTGGGGGGGA | ATAAACTAA   | TATCATATTT | 73260 |
| GGGCTACTAT | AAAAATTTTA | AAGCCCTAAA | CAATCCCAAT | TCTATATTTT  | TTAAAAATAA | 73320 |
| TGGTATAGAT | ATAGATTTAA | ATATCGGATT | GTCTCCTGTA | ATTGTCTCAT  | TTAAAAGCAC | 73380 |
| AGTAAGCTTT | ACTCCTATTG | CTTTTTTAAA | TTTATATGCA | TCAAATGAAC  | TTGGCATAGG | 73440 |
| TTGGCAAGCT | TTTGGATTTA | AAGGAGTAGG | CGTACACATT | GAAAATGGGA  | AATATTCAAA | 73500 |
| TGCTGTTGAA | TTTTATTCAG | AAATAACAGC | GGGGGGACGA | TTCCAATTTG  | ACTTAAACGC | 73560 |
| TATTTTTCAA | GGAGAATGGA | CACACATTAT | TACAGTTATT | GGAAATGATT  | TTACATACTT | 73620 |
| AATCAATCCC | CATGCAAAAA | AAGATCAACT | TTGGAAATAT | AAAGCAGATG  | ATGGTAAAAA | 73680 |
| TATAAATGGC | ATGCTAATAA | AACCTTACGC | TCTTTTGGCT | TACAAAATGC  | CAATACCTCT | 73740 |
| TAACACCATA | GGCCTGCTTT | ATGAAGGAAA | AACACAAATT | GGCAAAGAAA  | GAAACATAAG | 73800 |
| CTCTTGGAAA | AACAAAGGCT | GGGGAAGTGA | TATTTTATAT | CACAACATTT  | CTATTGTTGC | 73860 |
| TAATTTTGAA | ATTATCAAAC | CTTTAACACT | TGGCCTTCAA | TTTAAATTAT  | CTACAAATCC | 73920 |
| CACATACACA | AGTAACACAG | CCGACTGGC  | TGATATTTCA | AAAAGAATAG  | CAACTGGCAA | 73980 |

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| TTCTTATTTT TATTACGATT CTATTGGAAT GTCTATAACT TATAAATACT AAAGTCTATT  | 74040 |
| AAATATAAAT TTAATATCTA AACTGATTTC TTCCAGAAAC TTTAGCCTCA TAAAGCTTGC  | 74100 |
| GATCAGCAAG CCTTATGATA TTGGTAAAAT TGTTATCAAT AGGAACTTCT TGAGCAAGCC  | 74160 |
| CAATTGAAAC AGTAACAATG CCAGAAACAC TACTGTGCTC ATGAACTATT CTTAAGCGTT  | 74220 |
| TTATATCATT AATCATTGTT TTAATAATAC TAACCATTTC ATTTAGACTT TTGTTGACAG  | 74280 |
| AAAAAAAAAT AAATTCTTCC CCTCCATATC GAGCAACATC TATTTTATAT TTTAAGGAAA  | 74340 |
| CCTTATATAA GGCTTTAGCA ATCAATTTAA GACATTCATC ACCATTGGTA TGGCCATAAT  | 74400 |
| TATCATTGTA ATTTTTTAAA TTATCAATAT CTAACATTCC AACAATTATT ATTTCTTTAC  | 74460 |
| TTTCTAAAGC TTTCATCCAC GACTTAGAAA ATTTATCCAT AAAAAATCTT CTGTTTGGAA  | 74520 |
| TTTGAGTAAG CCCATCAATT CTAGACAAGC TTTTAAAATA ATCTCTTAAC CTTTTTAATT  | 74580 |
| CAAGATGTGT CTTAACTCTA GCATCAATTA TTCGACTATT AAAAGGCTTT AAAATATAAT  | 74640 |
| CTACTCCACC AACGTTAAAT CCTTCAAGCT GAGCATCTGT GGAACCTCTT GAACTAATGA  | 74700 |
| AAATTACAGG AATCTCTTTA GTATCGGGAT CGCTTTTATAG CTTTCTGCAT ACCTCATAAC | 74760 |
| CGTTAATATC TGGAAGACCT ATGTCAAGAA GTATAAGATC AGGACTATCT TTTTCAACTT  | 74820 |
| GCTTTAAAGC ATCAAGTCCA TTTGTTGCAA CCTCAATCTC GTAAGCACCT TGCAATATAT  | 74880 |
| TTACCAATAA ATCTAAATTG TGGGGAGAAT CATCCACAAT TAAAAGCTTC TGATTCTCTG  | 74940 |
| CTTCAAAAGC TTTATCTTTA ATTATCATTT CCACTGCTAA TATCTCTTAT TATTAAGCAT  | 75000 |
| TTCAATAATC TCTTCAAGAA TCTTAGAGCT CTCAGCAAAT CTATATAATC TTAAATTTCT  | 75060 |
| GCGAAGATCA CTAAATAATA CCTGAATATT ATCGTCTAAA ACATATTTAT TAATGCTCTC  | 75120 |
| AAGAATTTCT TTGTATTCTC TTGGCTTTCT AGTCTTAATA CCAATTAAAA GTTTGTTGAG  | 75180 |
| AAGGTTTAAA AATTGATCAT TATTTTTTAAA ATATAGCTTG TTCTCACTAA CAATCTCAGA | 75240 |
| CTCAAACAAA ATATTTTCCT TTATGTCGCT TATTAGTTGA AATAAATCAT CTTTTACAAA  | 75300 |
| AGAATACATT TTTTCAACT CAGAAATTGA ATCTTTACTT GTTTCAATTT TTTGAAAATC   | 75360 |
| TTTATACAAT TCGCTACGCA TATTAGAAAG AGCTCCAGAT ATTGAATGAG ATATATCCTT  | 75420 |
| AATTAAAGAC AAATCTTCCT CATCAAAAGC TTTTTCAAA TCAATAATAT TAATAGAGAT   | 75480 |
| AAAATCAACA AGCCCTCTAC ATAATTCAGA ATATGATACA TATGAAAGAT TTAATTCCTT  | 75540 |
| TAAAGCCCTA TTAACATCTA AATTAGGAAA CTTAACAAGT TGATTCAAAT TTTCAATCTC  | 75600 |
| CCCAATATCA TCAACTTCAA ACTGTAAGTA TTTTTTTAAT ATAGTTTTAA TTGAACTTAT  | 75660 |
| GTGTATTGGT TTTGAGATAT AATCATTCAT ACCACTTGCA AGACACTTGT CTTTATACTC  | 75720 |

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| TTGCAAAGCA | TGCGCTGTTA | CAGCAACCAA  | AACACAAGGC | TTTAAATTCT  | TTGCCTTTTC | 75780 |
| AAATTTTCTA | ATTTCCCTAG | CCACCGAAAA  | TCCATCATAT | CTTGGCATTG  | GTATATCAAT | 75840 |
| AAAAGAGATA | GTATATTTTT | TATCTTTTAA  | AGATTTTAAA | GCCTTTACTC  | CATCATCTAC | 75900 |
| AACATCAATA | AAATTTTCAT | TAATGCCTAT  | AACAACAAGA | ATATCTTTCA  | ACACTTTTTG | 75960 |
| ATTTACCTGA | TTATCTTCAG | CTATTAAAAC  | ATTAATGGGC | TCTTTTATCC  | TTAAAGCACT | 76020 |
| ATCTATTGGA | ACCAAATCCT | CAAAATCCAT  | TTCTGGGTAA | AACTCTTTTT  | TATAAAGAAT | 76080 |
| AGAGCATATA | CCAAGCCCCA | TTAAAGGCTT  | TTTAACATAA | CCATATTTTA  | AATTTTITAG | 76140 |
| AGCTTTATTA | TCTAAATAAT | AAAATAAAAA  | AATAATTTGT | ACATCAGAAT  | TTAGTCTTTC | 76200 |
| AATATTATTG | GCAAGTCGAA | TACCCTCTTG  | AATATTATCG | TTATTTACAT  | TTATATAAAC | 76260 |
| AAAATTATAA | GAAGGGTATT | TCTTGAAGAC  | TTTATAAGCA | TCCTCAAAAG  | ACGCTACATA | 76320 |
| GCGCACATTA | GAAGAGCATC | CCAATAAAAT  | CGAACAGTGC | TCAAAAATTT  | TAATAGATTT | 76380 |
| TTGACTTAAA | AGCACATTTA | ATACTTTATT  | GTCACCATTT | ACTGATTGAA  | ATCTATTGAT | 76440 |
| TGACAATTTT | TTACTTTTAA | GCTCACTACC  | CAATAAAAAG | GGCAACATAA  | ATGAAAAAGT | 76500 |
| TGTACCCTCT | CCCACCTtGC | TATCAACAGC  | AATACCAAGA | CCACCCATTA  | GTCTTATAAG | 76560 |
| CTCTCTAGAT | ATTGACAATC | CCAATCCTGC  | ACCTTCATGA | ACCCTTGAAG  | AAGAATCATC | 76620 |
| CTCTTGTTTA | AATATTTCAA | ATATCTTAGA  | AAAATTTTCT | TTTTCAATCC  | CTTGCCTGT  | 76680 |
| ATCTATTACC | TTAAATTCAA | CTGTAACCAA  | AACCCTATTA | CCATCAGTTC  | TTGTTCTACA | 76740 |
| TACTTCTTCA | TAATTTAAAA | CAATAACACC  | ATCATCTGTA | AACTTAAAAG  | CATTTCTTAT | 76800 |
| TAAATTAATT | AAAACCTGTT | TAATTTTITAC | AATATCACCC | TTTATATAAT  | TATTAAAAAT | 76860 |
| AGATTTAGAA | TAAGAGAATA | AATCAATATT  | TTTCTTTGCA | CATTGAGATT  | GAAAAGCTTT | 76920 |
| TAAAACCATT | TCCATTTTAC | TCTCTAAATC  | AATCTCTTGA | CTCTCAACAT  | ATAATTCATT | 76980 |
| GACATCTATT | TTAGACAAAT | ACAATATATC  | ATCAATTAAA | GAAAGCAAAG  | AATCAGATGA | 77040 |
| ATAATTTATC | ATCCTAACAT | AATCTTTTTG  | AACATCTGTA | AGAATAGTTG  | TATCCAAAAG | 77100 |
| CTCAGTAGCC | GCCATTATTG | CGTTAATAGG  | GGTACGAATA | TCATGACTGA  | CATTGGCTAT | 77160 |
| AAAAATGGTT | TTAGCAGCAT | TAGCGGCTTC  | CGCAATCTTT | TTTTCAITCA  | TCACAAAAGA | 77220 |
| ATATCTTCTT | TTCTGCTCAA | ATGATAATCT  | GAACATAAAT | ATAATTACAA  | ATCCTAAAAA | 77280 |
| AGTAAAATAA | AATATAATGA | ATGTTATCAC  | TAAAAATTTG | AAATTTTITAA | ACCTGATACT | 77340 |
| TCTGGATTTA | TAATAAATAT | CAAATTTCCA  | ATCATTTAAA | TACATCTGAC  | TGTCAACATT | 77400 |
| TGAACGCATA | ACAACTTTTT | GAATAATTTT  | TTTCAAGATA | TAATCTTGAT  | TATAAATAGC | 77460 |
| AAGACTCAAA | TCAAAAGCCA | AATCTCTAAA  | AGTAGGAATT | TTTTCAACAT  | CATCAATATT | 77520 |

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| TAATTCCTCA AAAACAGCAG CAGCTGTATA CTCATCGCTA ATAATCCCAT CTACCTTTCC  | 77580 |
| CTTATAAAGA AGAAGCAACG CTTTCATTAAA ACTGCTTACC AGAATAAGCT TTGATTTAAT | 77640 |
| ATTAGAAGCC AAATTTTTTAC TATATAAAAA ATCAAGTATA GCAAACTTTT CTAAAGATCT | 77700 |
| AGATGGAAGC ACCCTTTTCT TATTTGAAAA AATATAAAGT GGAATTCGAG AATTTAATTT  | 77760 |
| TATGTTGAAA ACATTATCTA AATTTGAATC GGTTCGATTA GTATTTAGCA TATCGATTTT  | 77820 |
| TCCAGATTTG ATTAATTTTT TAAGATCTAA ACTGCTGTGT ACTTTAATTA TGTAAATCT   | 77880 |
| CAAACCTGAA AACATTCTAA TCTTATCAAG CAAAAATTGA TTTATTCCTT TATAATTATT  | 77940 |
| TGCCTCAACA TAATCTATTG GATACCAATT TTTAACAGCA AGATTTAATT TATTATTTTT  | 78000 |
| TGATAACCAA ATTTTTTCTT CTATATTAAA TTTAACCTTA TTCATAATTT TATAACTATT  | 78060 |
| TATTCTAGAA CTATTAATCT CTTCTTTATC CAACCAATTT TTATCTATTT GAAGCAAAGA  | 78120 |
| TTCAAATGAA ATATCATCAA ATATAGAATT GAGAATATAT TTAATAACCT TATAAATCCT  | 78180 |
| ATTATCAATG GCTAATACTA AAAACCTATT TTTATTAAAA ATCGAATCGT AAGATTTTAA  | 78240 |
| TCTACCGTTA TATCCATTTA ATTTTAACAA ATATTTTGTT GTTATTGAAT TTTCTATAAA  | 78300 |
| CCCATATGAA TTATTAACAA TATCTATAAA GTTATTAAACA ATATCTTTAT TCTTATTTAA | 78360 |
| TTGAATATTA TTAAAATTAA AATCAATAAA CTGAGAATTT ATTGGACCAG CATCATTGCT  | 78420 |
| TAGGTCTTTA GAATAAAATT TAAAATTAAG AGGATATATT GGCTTACTTA CTACATAATT  | 78480 |
| AACATTTTCC AACACACTAT CATTGCTAAT AATTCCTCCA AAAATACCTA CTGATTTTCC  | 78540 |
| ATCTAATGAT TTCTTAATAT CCTCTTTGGA AAATCCCTTA AAAATAGGTT TAAAGATATG  | 78600 |
| TTGTCTTGAG AGAAGATTCC ACAAATCCAC TAAAATGCCA GACAATTTTC CCTGTGAATT  | 78660 |
| AATAAACTT AAAGGAGGAT AATCATTATA TAAACCAACA TCAACAAAAC TTCCCTTAGC   | 78720 |
| ATTGCTATCT AAAAAAGAAA AAACAAGTTC CTCAGGCATT TTCATTAAAT ATGAAAACAA  | 78780 |
| ATCTAAATTC AAATTCTTTA CTATCTCAGG AGCATTTCTA CTAATAGCCA CTCTATTTTT  | 78840 |
| GATACTATAA AAAACATCCC CGGTAAAAAT CACAAGATCT TCACTTAAAA AGTTATTTGC  | 78900 |
| AATATAATGT AAAGTCTTGC AATCACCATA TATATAATCA ACTTTATCGT TTTTAAAGGC  | 78960 |
| CAATACTAAC TCTTGAGAAT TATCAGCCAA AAAAATGGTG TTAACGTTTT TTAACCTTAA  | 79020 |
| GATATCTTCA TATATTGTAT TTTTAATAAC TCCTATATTA AAATTGGATA AAAATGTTGA  | 79080 |
| ATGGGTATTT TTATATTTTT TATTAGAGTT TTTAAAAAAT AAAATTGAAA TACTCCTAGC  | 79140 |
| AAGCTCACTT TTAAAATAAA AAAAATCATT TAATTTTACA TTATAAGTTA ATCCTAAATA  | 79200 |
| TATTGCTTCG TCTTCAATTT CACTTTCATT TAAATTATCA ATATGCTCAA CCATAATATC  | 79260 |

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|-------------|------------|------------|-------------|------------|-------------|-------|
| AGCATTATTA  | TCTTTTGCCC | ATTTATCTAA | AATAGAAAAA  | ATAAGTCCTT | CATATTCCTCC | 79320 |
| TTTATTATTC  | TTGTAGTAAA | AAGGAAAAAA | TTGATCTACA  | AGCTTAAACT | TGAAAATATC  | 79380 |
| CTTAGAAAAT  | AAATTGACGT | TGACAAAGCA | AACCAAAAGT  | AAAATTAAAA | AATTAGTACT  | 79440 |
| TAAAAAGTTT  | GCTTTTTTCA | TGTTATTTTA | AAATTCCCTT  | ATTAAAAACA | ACAGTTTTAC  | 79500 |
| CACTGTGTAA  | AAATAAATAT | ACACAATAAA | TTCAAGGTTT  | AAAGTATAAA | AACAAAAACC  | 79560 |
| CTGGCAATAA  | CCTACTCTCC | CGCGAACTCG | CAGTACCATC  | AGCGAATAAG | AGCTTAACTT  | 79620 |
| CTGTGTTCCG  | AATGATAACA | GGTGTTCCTT | CTTTTCTTTA  | ACCACCAGGG | TTTTTACAAG  | 79680 |
| GAAGACAAAA  | ATATGGCCAA | AGATACGGGT | AATTAGTATT  | AGTCAGCTTA | ATATATTGCT  | 79740 |
| ATACTTACAC  | TTCTAACCTA | TCAACCTGGT | ATTCTTCCAG  | GACCCTTAAA | GGATATCTCA  | 79800 |
| TCTTGAGGAA  | GGCTTCCCAC | TTAGATGCTT | TCAGCGGTTA  | TCCTTTCCGA | ACGTAGCTAC  | 79860 |
| CCAGCACTTA  | CCCTTGGCAG | GATAACTGGC | ACACTAGAGG  | TTCGTCCATC | TCGGTCCTCT  | 79920 |
| CGTACTAAAG  | ATAGCTCCTC | TCAAATATCC | AACGCTTG TG | GCAGATAGGG | ACCAAAC TGT | 79980 |
| CTCACGACGT  | TCTGAACCCA | GCTCGCGTAC | CGCTTTAAAT  | GGCGAACAGC | CATACCCTTA  | 80040 |
| GGACCTGCTC  | CAGCCCTAGG | ATGCGATGAG | CCGACATCGA  | GGTGCCAAAC | CCTTCCGTCG  | 80100 |
| ATGTGAACTC  | TTGGGAAGGA | TAAGCCTGTT | ATCCCCGGAG  | TACCTTTTAT | TCGTTAAGTG  | 80160 |
| ACGGCGCTTC  | CACTTGCCAC | CGCCAGATCA | CTAAGACCTA  | CTTTCGTATC | TGTTCGACTT  | 80220 |
| GTCAGTCTTA  | CAGTTAAGCT | ACCTTATGCC | TTTACACTTA  | CAGAGTGATT | TCCAACCACT  | 80280 |
| CTAAGGTAAC  | CTTTGCGCAC | CTCCGTTACT | CTTTAGGAGG  | CGACCGCCCC | AGTCAAAC TA | 80340 |
| CCCACCTGGC  | ACTCTCCTCA | TATTTCTATA | AGTTAGAAAC  | CTAATTAAAC | AAGGGTG GTA | 80400 |
| TTTCAAGATT  | GACTCCACTA | CCCCTGACGA | GATAGCTTCA  | AAGTCTCCCA | CCTATCCTAC  | 80460 |
| ACATATTTAA  | TCAAATCTCA | ATACCAAGCT | ATAGTAAAGG  | TTCACGGGGT | CTTTCCTGCT  | 80520 |
| AACCACAAGT  | AATCGGCATC | TTCACCGATA | CTTCAATTTT  | ACCGAGCTCC | ACGTTGAGAC  | 80580 |
| AGCGTCCAAA  | TCGTTACACC | ATTCGTGCGG | GTCGGAAC TT | ACCCGACAAG | GAATTTGCT   | 80640 |
| ACCTTAGGAC  | CGTTATAGTT | ACGGCCGCCG | TTTACTGGGG  | CTTAAATTCA | ATGCTTCGCA  | 80700 |
| TAAACTAACA  | TCTCCTCTTA | ACCTTCCAGC | ACCGGGCAGG  | TGTCAGTCCC | TATACTTCTC  | 80760 |
| TTTACAGATT  | TGCAGAGACC | TGTGTTTTTG | GTAAACAGTC  | GTTTGGACCA | TTTTTATGCT  | 80820 |
| ACCTAATTGC  | TTAGGTCGTA | CTTATCCCGA | AGTTACGTAC  | GTATTTTGCA | GAGTTCCTTA  | 80880 |
| ACGTGGATTTC | TCTCGCGCGC | CTTAGAATTT | TCATCCCACC  | TACCTGTGTC | GGTTTGCGGT  | 80940 |
| ACGGTCCCTT  | ATAGCCTAAC | CTTAGAAGCT | ATTTCTTGGC  | ACCTTGACTA | CCTACATTTT  | 81000 |
| ATGCTACCTA  | AATAGCACTC | ATCATCACAT | CTTAGCTCTC  | TTAACGGATT | TTCTATTAA   | 81060 |

|            |            |            |            |            |            |       |
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| GATCATCGCC | TTAATGCTTA | AACTAGGACA | ACCATCGCCT | AGCAGTAGTT | AACCTCATGC | 81120 |
| GTCACTCCAT | CGAAACTATA | AGAGGTACGG | GAATATTAAC | CCGTTTCCCA | TCGACTACAC | 81180 |
| TTTTCAGCTT | TGCCTTAGGG | GCCGACTAAC | CCTGGGAAGA | CGACCTTTAC | CCAGGAAACC | 81240 |
| TTAGGTTTTT | GGCGAATGGG | AATCTCACCC | ATTTTTTCGT | TACTCATACC | TGCATTCTCA | 81300 |
| CTTCTGATAC | CTCCATCAAA | CTTTCCAGyT | TAACTTCTCT | GGCTTACAGA | ACGCTCCCCT | 81360 |
| ACCATCTTAA | CTTTCGTAA  | GATCCAAAGC | TTCGGTAATG | TGTTTAGCCC | CGTTACATTA | 81420 |
| TCGGCGCTTA | AGTACTCGAC | CAGTGAGCTA | TTACGCACTC | TTTAAAGGTA | TGGCTGCTTC | 81480 |
| TAAGCCAACC | TCCTGGCTGT | TTACGTACCT | AAACCTCCTT | TTCCACTTAA | CACATTTTTG | 81540 |
| AGACCTTAGC | TGTTGGTCTG | GGTTGTTTCC | CTCTCGACTA | TGAACCTTAT | CGCCCATAGT | 81600 |
| CTCACTCCTA | TTCATCATTT | AATAGCATTC | GGAGTTTAAC | TGAGTTTGGT | ACCCTTTGAC | 81660 |
| AGGCCCTAGC | TCAATTAGTG | CTCTACCTCT | ATTAAACTAA | AATAAGGCTG | AACTTAAATC | 81720 |
| CATTTTCGGG | AGAACCAGCT | ATCTCCGAGT | TTGTTTAGCC | TTTCACTCCT | ATTCACAGCT | 81780 |
| CATCCCTGCC | TTTTTAAACA | GACTAGAGTT | CGGCCCTCCA | CTTGGTTTTA | CCCAAGCTTC | 81840 |
| AGCCTGGCCA | TAAATAGATC | ACTCGGCTTC | GGGTCTACCA | CATCTAACTA | AATCGCCCTT | 81900 |
| TTAAGACTCG | CTTTCGCTTC | GACTCCAGCA | CTTCTATGCT | TTAATCTTGC | TAGACATGAT | 81960 |
| AACTCGCAGG | TTCATTATGC | AAAAGGCACG | CCATCACCGC | AATAAATTAC | GGCTTTGACT | 82020 |
| GCTTGTAAGT | CTACGGTTTC | AGTTCTATTT | CACtCCCCTC | CCGGGGTTCT | TTTCACCTTT | 82080 |
| CCCTCACGGT | ACTCTTCTCT | ATCGGTAGCT | TTCTAGTATT | TAGCCTTGGA | GAGTGGTCTC | 82140 |
| CCCAGCTTCA | AACAAGGTTT | CTCGTGCCTC | GTCCTACTCA | GGAACATTTT | AAAAAGATAT | 82200 |
| TTACATTTAA | ATTACAGGAC | TATCACCTTC | TTTGGTTAAA | CTTTCAGAT  | TATTCTTCTA | 82260 |
| TATAAATATT | TTGTAACTTT | TTTGCTTATT | ACAGACTAAG | CCTAAACGTC | CTACAACCCC | 82320 |
| ATAAATGCAA | CGCTCTGCAG | CTTGACACAT | TTAAAGTTTG | GGCTACTCCC | TTTTCGCTCG | 82380 |
| CCACTACTAA | GGGAATCTCT | TTGATTTCTT | TTCCTCAGGG | TACTTAGATG | GTTCACTTCC | 82440 |
| CCTGGTATCG | CCTCTATTAT | TAAATAATA  | GATAGCTAGC | ATCTTGCTAG | CTGGATTACT | 82500 |
| CCATTCGGTA | ATCTTGGGAT | CAATAAATGT | TTGCTTCTCC | CCCAAGCTTT | TCGCAGCTTA | 82560 |
| CCACGACCTT | CTTCGCCTTA | AAGCTCCTAG | GCATTACCA  | TAGACTCTTA | TTACTTTGAC | 82620 |
| CATATTTTTA | TCTTCCATCT | CTATTTTGCC | AATTTATTTA | TACAACATAA | AATAATATAT | 82680 |
| ATCTTTGTTT | AATACATGTC | AATATATATT | TTATTTTTTA | TGTTATTTAA | ACAACACATT | 82740 |
| CAAAAACACC | AATATTTAAA | AAACATAAAA | ATAAAATCAA | AGTTTAAAGT | ATAAAAATAA | 82800 |

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| AAACCCTGGC AATAACCTAC TCTCCCGCGA ACTCGCAGTA CCATCAGCGA ATAAGAGCTT  | 82860 |
| AACTTCTGTG TTCGGAATGA TAACAGGTGT TTCCTCTTTT CTTTAACCAC CAGGGTTTTT  | 82920 |
| ACAAGGAAGA CAAAAATATG GCCAAAGATA CGGGTAATTA GTATTAGTCA GCTTAATATA  | 82980 |
| TTGCTATACT TACACTTCTA ACCTATCTAC CTGGTATTCT TCCAGGACCC TTAAAGGATA  | 83040 |
| TCTCATCTTG AGGAAGGCTT CCCACTTAGA TGCTTTCAGC GGTATCCTT TCCGAACGTA   | 83100 |
| GCTACCCAGC ACTTACCCTT GGCAGGATAA CTGGTACACT AGAGGTCGT CCATCTCGGT   | 83160 |
| CCTCTCGTAC TAAAGATAGC TCCTCTCAA TATCCAACGC TTGTGGCAGA TAGGGACCAA   | 83220 |
| ACTGTCTCAC GACGTTCTGA ACCCAGCTCG CGTACCGCTT TAAATGGCGA ACAGCCATAC  | 83280 |
| CCTTAGGACC TGCTCCAGCC CTAGGATGCG ATGAGCCGAC ATCGAGGTGC CAAACCCTTC  | 83340 |
| CGTCGATGTG AACTCTTGGG AAGGATAAGC CTGTTATCCC CGGAGTACCT TTTATTCTGT  | 83400 |
| AAGTGACGGC GCTTCCACTT GCCACCGCCA GATCACTAAG ACCTACTTTC GTATCTGTTC  | 83460 |
| GACTTGTCAG TCTTACAGTT AAGCTACCTT ATGCCCTTAC ACTTACAGAG TGATTTCCAA  | 83520 |
| CCACTCTAAG GTAACCTTTG CGCACCTCCG TTA CTCTTTTA GGAGGCGACC GCCCAGTCA | 83580 |
| AACTACCCAC CTGGCACTCT CCTCATATTT CTATAAGTTA GAAACCTAAT TAAACAAGGG  | 83640 |
| TGGTATTTCA AGATTGACTC CACTACCCCT GACGAGATAG CTTCAAAGTC TCCCACCTAT  | 83700 |
| CCTACACATA TTTAATCAAA TCTCAATACC AAGCTATAGT AAAGGTTTTC GGCTCTTTCC  | 83760 |
| GTCTAACCAC AAGTAATCGG CATCTTCACC GATACTTCAA TTTCACCGAG CTCCACGTTG  | 83820 |
| AGACAGCGTC CAAATCGTTA CACCATTCGT GCGGGTCGGA ACTTACCCGA CAAGGAATTT  | 83880 |
| CGCTACCTTA GGACCGTTAT AGTTACGGCC GCCGTTTACT GGGCTAAATT CAACGTTTCG  | 83940 |
| ATAAACTAAC ATCTCCTCTT AACCTTCCAG CACCGGGCAG GTGTCAGTCC CTATACTTCT  | 84000 |
| CTTTACAGAT TTGCAGAGAC CTGTGTTTTT GGTAAACAGT CGTTTGGACC ATTTTTATGC  | 84060 |
| TACCTAATTG CTTAGGTCGT ACTTATCCCG AAGTTACGTA CGTATTTTGC AGAGTTCCTT  | 84120 |
| AACGTGGATT CTCTCGCGCG CCTTAGAATT TTCATCCAC CTACCTGTGT CGGTTTTCGG   | 84180 |
| TACGGTCCCT TATAGCCTAA CCTTAGAAGC TATTTCTTGG CACCTTGA CTACCTATTT    | 84240 |
| CATGCTACCT AAATAGCACT CATCATCACA TCTTAGCTCT CTTAACGGAT TTTCTATCA   | 84300 |
| AGATCATCAC CTTAATGCTT AAACCTAGGAC AACCATCGCC TAGCAGTAGT TAACCTCATG | 84360 |
| CGTCACTCCA TCGAAACTAT AAGAGGTACG GGAATATTAA CCCGTTTCCC ATCGACTACA  | 84420 |
| CTTTTCAGCT TTGCCTTAGG GACCGACTAA CCTGGGAAGA CGACCTTAC CCAGGAAACC   | 84480 |
| TTAGGTTTTT GCGGAATGGG AATCTCACCC ATTTTTTCGT TACTCATACC TGCATTCTCA  | 84540 |
| CTTCTGATAC CTCCATCAAA CTTTCCAGTT TAACTTCTCT GGCTTACAGA ACGCTCCCTT  | 84600 |



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| ACCATCTTAA CTTTCGTTAA GATCCAAAGC TTCGGTAATG TGTTTAGCCC CGTTACATTA  | 84660 |
| TCGGCGCTTA AGTACTCGAC CAGTGAGCTA TTACGCACTC TTAAAGGTA TGGCTGCTTC   | 84720 |
| TAAGCCAACC TCCTGGCTGT TTACGTACCT AAACCTCCTT TTCCACTTAA CACATTTTTG  | 84780 |
| AGACCTTAGC TGTTGGTCTG GGTGTTTCC CTCTCGACTA TGAACCTTAT CGCCCATAGT   | 84840 |
| CTCACTCCTA TTCATCATTT AATAGCATTG GGAGTTTAAAC TGAGTTTGGT ACCCTTTGAC | 84900 |
| AGGCCCTAGC TCAATTAGTG CTCTACCTCT ATTAACTAA AATAAGGCTG AACTTAAATC   | 84960 |
| CATTTGCGGG AGAACCAGCT ATCTCCGAGT TTGTTTAGCC TTTCACTCCT ATTCACAGCT  | 85020 |
| CATCCCTGCC TTTTAAACA GACTAGAGTT CGGCCCTCCA CTTGGTTTTA CCCAAGCTTC   | 85080 |
| AGCCTGGCCA TAAATAGATC ACTCGGCTTC GGGTCTACCA CATCTAACTA AATCGCCCTT  | 85140 |
| TTAAGACTCG CTTTCGCTTC GACTCCAGCA CTTCTATGCT TTAATCTTGC TAGACATGAT  | 85200 |
| AACTCGCAGG TTCATTATGC AAAAGGCACG CCATCACCGC AATAAATTAC GGCTTTGACT  | 85260 |
| GCTTGTAAGT CTACGGTTTC AGTTCTATTT CACTCCCCTC CCGGGGTCTT TTTACCTTT   | 85320 |
| CCCTCACGGT ACTCTTCTCT ATCGGTAGCT TTCTAGTATT TAGCCTTGGA GAGTGGTCTC  | 85380 |
| CCCAGCTTCA AACAAGGTTT CTCGTGCCTC GTCCTACTCA GGAACATTTT AAAAAGATAT  | 85440 |
| TTACATTTAA ATTACAGGAC TATCACCTTC TTTGGTTAAA CTTTCCAGAT TATTCTTCTA  | 85500 |
| TATAAATATT TTGTAACTTT TTTGCTTATT ACAGACTAAG CCTAAACGTC CTACAACCCC  | 85560 |
| ATAAATGCAA CGCTCTGCAG CTTGACACAT TTAAAGTTTG GGCTACTCCC TTTTCGCTCG  | 85620 |
| CCACTACTAA GGAATCTCT TTGATTTCTT TTCCTCAGGG TACTTAGATG GTTCACTTCC   | 85680 |
| CCTGGTATCG CCTCTATTAT TTAAATAATA GATAGCTAGC ATCTTGCTAG CTGGATTACT  | 85740 |
| CCATTCGGTA ATCTTGGGAT CAATAAATGT TTGCTTCTCC CCCAAGCTTT TCGCAGCTTA  | 85800 |
| CCACGACCTT CTTGCCTTA AAGCTCCTAG GCATTCACCA TAGACTCTTA TTACTTTGAC   | 85860 |
| CATATTTTTA TCTTCCATCT CTATTTTGCC AATTTGTTTA TGCAACATAA AATAATATAT  | 85920 |
| ATCTTTGTTT AATCCATGTC AATACTTATT CCAATATTTT AATAAATAAA TTTTCAAAAA  | 85980 |
| TACATTATAA GTAAAAAATT TATATTTTAA ATAGAAAATC CTGCTAAAAA TAAATCAAAT  | 86040 |
| GGATTAAACA TTAAATACA AATTATTAAT ATTTAATATT AAGCTTAAAA AAATCAATTA   | 86100 |
| AAAACCTAGC AACGCCATCC TCATTATTAC TAAATCTTGT TATTTCAATC TTTGCTAAAT  | 86160 |
| TAATTTTAAG AAATTCATTG GCATTTTTC TTTAAACCCC TTTACCAAGA TTTTGTAGCA   | 86220 |
| TTTCATAATC ATTATTATTA TCTCCAAAAG CTAAACATC ACACAATGGA ATGCTTTCAA   | 86280 |
| GAAAAGCAAT ATTTTAAATA GCATTATATT TATTAGCATT AATATTGGTA ACCTCTAATA  | 86340 |

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| AATCTTTAGA AGAAAAAAC ACTCTTGTGT CCTGGAAATC TTTACTTTTA ATCTCAGTGT   | 86400 |
| CAAGTTTATT AAGAATTGCC AAATCGTCAC AATAATAAAC AATCTTAGAA ACAGAATCAA  | 86460 |
| CGTTTAGTTT GGTCAAATCT CCAATAATAA CATTTAAGCC CAAATCTTTA ATAAAATGTT  | 86520 |
| TCATAATAGG ACTTTTAACA TCTGCATTAG AATACCAAGT GTCAAAAGTA TAAAGATTAA  | 86580 |
| CATCAACATT ATCTGTATkt ATCTTGAGAA TTTCTTTTGC TArGTCATAA TTCATTGCGT  | 86640 |
| ATCTAAAAaT TAAATTTTCT TssAAAAACA CTTCAGCCCC ATTCGCCGTT ACAAGATAAT  | 86700 |
| TTTCATTAAT ACyAATTTCT TTTAATTGGC TCCTTATATT TTAACTTCA CTCAATCTTC   | 86760 |
| TACCGGTTGC AATAATTATT TTAAAATCTT yCTTCAAAGC CAAAAGAACC TCAAGAGTTA  | 86820 |
| AAAAGGCAAT CTCATGGTTA TTATTCAATA AAGTGCCATC AAGGTCAAAA rCCAGCATt   | 86880 |
| tATATCTTTt ATAATTAGAA TtCATATATA AaTCTCTCTT TtAAGATATA CTATCACAAA  | 86940 |
| TAATTTATTC TTAATAAATT ATTCTTAAAG CATAAAaTAA TAAAATTTAA TAATATTATA  | 87000 |
| TTTTTTTAAA AAAATTTAAA AAAATATAAT TAAATGAAAA TCAACGCCTT GAAACAAATT  | 87060 |
| TATTATCTTT GATATAAAAC CTCCAAAGCT TGTTTATATC ACTCTCTTGT GCATAATTAA  | 87120 |
| TATTGATTCT TTTTGAACAA ACTATATTAA AATCTAGATT CAAACCTCTT TGTAAAAAAA  | 87180 |
| GCTCATTATT CCCAATAAGA TCAACTTTAT TAAAAGTTAA ATCAATGTTT AAAAATTTTG  | 87240 |
| TAAGTTTTCC AGGACCATTA GTAAGAATGC TCTTCTCTCC CAATAGTGGA GAAATAGGCT  | 87300 |
| CTACACTTCT GATTAAAACA GCTTGAGGAT TATTTTTATC TGCAGTCACA ACGTTAAACA  | 87360 |
| TATAATGCAT ACCATATATT ATATACACAT AAGAATATCC TCCTATTCTA TACATAGCAC  | 87420 |
| TTGTGCGATT TGTTATCTTG CCGCCATAAG AATGACAAGC GCTATCTGTT ATCCCCATAT  | 87480 |
| AAGCTTCCGT TTCAACAATT CTGGTAACTA TTTCTCTTT GTCGATCTTT CTGATCAACA   | 87540 |
| AATTACCAAG CAATAACTTT GCAACGGTAG TAGCATCTTG CAAAAAAAAA TATCGATCCA  | 87600 |
| TAAGCTCAAT TTTAAAACAA AATAATAATA AAAATTATTA CAAAACACA CATGTAAAAT   | 87660 |
| ATGAAAACAT ATTGCCTAGA ATAAAAATAA AAACATAAAT CATTTAATCA CCCAGTAAAT  | 87720 |
| ACATATTTTA AATAAATCTT TGGTTGATTA ATAAATTTTT TTGATTTTTA ATCAAAAAAA  | 87780 |
| TTTAAAAAGT TGAAC TAGTT CAACTTAAAT CAGCTTATAT GAAAATGCTA ATCTAAAATA | 87840 |
| CAAAATATCG AATATTGACA AATATATAAA AAATTATAAA CTATATGCAA TATCTCTTAC  | 87900 |
| ATCTTGAAAA GATATAAGAG ATATTGACAA AATCATAAGA TTAAATAAAA ATTTGTAAAG  | 87960 |
| AATTGATATG CTTAAGGGAT CATAGCTCAG GTGGTTAGAG CGCAGGTCTG ATAAACCTGA  | 88020 |
| GGTCGGATGT TCAACTCATC CTGGTCCCAA TGTATTCCAT TGTTTTAATT ACGACAATAC  | 88080 |
| TGTTTTAAGC TATAATTAAT AAGAAAAACA AAAATTTATT CAATTTCTAT ATTAAGGTAT  | 88140 |

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| ACACGATTAC TAACAATTAC AACTTCATGC CATTGAGTGT CGGGCAAATC CAAACTGAAA   | 88200 |
| TCTGCTTTAT GGTATTTTGC TTGGCTTTTT TGAGTTATTG TTGCAAACCTT GTAACCTAAA  | 88260 |
| ACATAAGAGC GATAACGATT TAATGCAATC TTTGCCTTCC TCCAACCTAT AACTGGCAAT   | 88320 |
| CTTATCCGAA TCCCTACCAC TAAATACTGG CAACGATAAT AAGGATTTAA GCTCGCTACA   | 88380 |
| ATACTTGTCC TTCTCTCAGA CATCACACTT AGTAATCTAC ATTATTTCCCT AACTAAAAAC  | 88440 |
| TATTTACTAA ATGCAGATCG TTTATAAAAT AGGCTGCTGA AAAATACAAT CCTGTTTAAT   | 88500 |
| CCTTGCACTT TAGCGAAACA ACTTCGGGTT TTATCGAAAG CTTGCTTTTG CTTCTAGACA   | 88560 |
| TTTTTCTTAA TATCAACAGA TCTCAACTTA ACCCAGAAAT TTTAACTTCT TGTGTTTCAC   | 88620 |
| ATTCCAACAA TTACTTTAAC AAAGTTACTT AAAACATAC TTAATTACAA TTTAGGrCAT    | 88680 |
| AAGCCCAATG GAGGTTAAGG GACTCGAACC CTTGACCCTC GGCTTGCAA GCGGATGCTC    | 88740 |
| TAGCCAACTG AGCTAAACCC CCAAATGAC CTAAATTA GTCTAAGCCT AATAAAACTA      | 88800 |
| TTTAATATCA ATAATTTAAT ACATAAACTT CTCTTAACT TACATAAATA AACTGGTTT     | 88860 |
| TAAAAACTCT CTTATCAAAA GAAAAGwGTA GGAAGAGTT AATGGAATTA GCCTTAGTTT    | 88920 |
| ATCTTTCTCT TAGAAAGGAG GTGATCCAGC CGCACTTTCC AGTACGGCTA CCTTGTTACG   | 88980 |
| ACTTCACCCC CCTCACTAAA CATACTTAA ATACCTTCCT CCCTTACGGG TTAGAATAAT    | 89040 |
| AGCTTCGGGT ATCCTCAACT CGGGTGGTGT GACGGGCGGT GTGTACAAGG CCCGAGAACG   | 89100 |
| TATTCACCGT ATCATCTGA TATACGATTA CTAGCGATTC CAACTTCATG AAGTCGAGTT    | 89160 |
| TCAGACTTCA ATCCGGACTG AGACCTGCTT TATGCGTTTT GCTTCACATC ACTGTTTCGC   | 89220 |
| TTGCTTTTGT ACAGGCCATT GTAGCACGTG TGTAGCCCAG GACATAAGGG CCATGATGAT   | 89280 |
| TTGACGTCAT CCTCACCTTC CTCCGACTTA TCACCGGCAG TCTTATCTGA GTCCCCACCA   | 89340 |
| TTACATGCTG GTAACAGATA ACAAGGGTTG CGCTCGTTGC GGGACTTAAC CCAACACCTC   | 89400 |
| ACAGCACGAG CTGACGACAA CCATGCAGCA CCTGTATATA GACCCCAAAC GGGGAATAAT   | 89460 |
| TATCTCTAAC TATATCCTAT ATATGTCAAG CCCTGGTAAG GTTCCTCGCG TATCATCGAA   | 89520 |
| TTAAACCACA TGCTCCACCG CTTGTGCGGG CCCCCGTCAT TTCCTTTGAG TTTCACTCTT   | 89580 |
| GCGAGCATAC TCCCCAGGCG GCACACTTAA CACGTTAGCT TCGGTACTAA CTTTTAGTTA   | 89640 |
| ACACCAAGTG TGCATCGTTT ACAGCGTAGA CTACCAGGT ATCTAATCCT GTTTGCTCCC    | 89700 |
| TACGCTTTTCG TGA CTACGCG TCAGTCTTGA CCCAGAAGTT CGCCTTCGCC TCCGGTATTC | 89760 |
| TTTCTGATAT CAACAGATTC CACCCTTACA CCAGAAATTC TAACTTCCTC TATCAGACTC   | 89820 |
| TAGACATATA GTTTCCAACA TAGGTCCACA GTTGAGCTGT GGTATTTTAT GCATAGACTT   | 89880 |

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| ATATATCCGC CTACTCACCC TTTACGCCCA ATAATCCCGA ACAACGCTCG CCCCTTACGT   | 89940 |
| ATTACCGCGG CTGCTGGCAC GTAATTAGCC GGGGCTTATT CATAAATTAA CGTCATCACT   | 90000 |
| TTGTCAATTC CTACAAAGCT TATTCCTCAT TTATAAAAGA ATTTTACAAT CTTTCGACCT   | 90060 |
| TCTTCATTCA CGCAGTGTCTG CTCCGTCAGG CTTTCGCCCA TTGCGGAAGA TTCTTAGCTG  | 90120 |
| CTGCCTCCCG TAGGAGTCTG GACCGTATCT CAGTTCCAGT GTGACCGTTC ACCCTCTCAG   | 90180 |
| GCCGGTTACT TATCATTGCC TTGGTAGGCA TTTACCCTAC CAACTAGCTA ATAAGACGCA   | 90240 |
| GACTCATCTA CAAGCGAAGC TTAAAGGCT TCCTTTCATC AATTAACAAA TTAAGTACC     | 90300 |
| TTATTCGGTA TTAGCTACTA TTTCTAATAG TTATCCCAT CTCATAGGTA GATCATCCAC    | 90360 |
| GCGTTACTCA CCCGTTGCGC ACTGAATGTA TTGCTACATC CCGTTTGA CTGATGCTTA     | 90420 |
| AGACGCACTG CCAGCGTTAG TTCTAAGCCA GGATCAAACCT CTTTCGTTATT TTATTTTTTT | 90480 |
| ATTTAAAAAA ATTAACAGGT TTTGTTTATT CTTTGGCTT TTAACCTTAC TTAAGTCTTC    | 90540 |
| CCTTCTCTCA TCTTCCAATA ATCATTTCOA CCTTTAATAC TTAAACAAAA TAAGAATCAT   | 90600 |
| ATTGTCAATA CCTTTGCATT ATTTTATTA ATATAAAATG TAAAAAATA AATTTTATTA     | 90660 |
| ATAAACAGTG ATAAAAGCAT TAACAGCCAC ACTTTTCATT AGCAGGCAAA GTTGTAATAA   | 90720 |
| TTTTTTTTTAA TTTATTTCCC AATTTAGCTT TTAAATAATC AAAAAAGGTT CTGAAATTTT  | 90780 |
| CATTATCTCC TTTAAACTTA ATCCACAGTT CTTTAAAGGT TAAATTCCT TCCCTAAGAT    | 90840 |
| CCTTGTAATT GGAAAAAGCA GCAGCACAGT CGCTATACAT TAAATTATAA AAATCAGAAT   | 90900 |
| CTTGTTTATC TTTAAAAAAA TCTATACTTG GTATTTTCTT GGCAAAGGCG AATCCTCTCT   | 90960 |
| CATAAGCCGT GCCAGAATCA ACATAATTAA CCAAGGCTAA AACAATATCG CTACTAATA    | 91020 |
| GCTCTTTTAA ATCTACTTCT CTTATCTTCT CCCTTATATC TCTATTTGCA AACTTATAAT   | 91080 |
| CAACCTTTTC AAGCAATCCC ATCTTTTGA CAGCATGATG CTCTGGAGAA AACTTCTTA     | 91140 |
| AATTAACTC TTCAAGAAAT TTCAAACCT CATCCCTTAG TTTAATTTCC TCTTCCTTAA     | 91200 |
| AAAATGGAGA GGCTAAATAA ATCTTCATAA AAACCCCTAT CAAAATTCAA GTATAACACA   | 91260 |
| ATAAATCAAT CGAGCAAAAT CAAGAATAAA TAAATTTTAA AATCCAAGTA GAAAACATTT   | 91320 |
| ATTATGAACG ACTTCTGCTG ACTAGAATAG TAAACTCTCC TTTAACCTTA TCCTTACTCG   | 91380 |
| ATTCAAAATA TTTTTTTAAT TCTAAAGGTT TGCCAATTTG ATATTCTTCA TAAATTTTGG   | 91440 |
| TCATCTCGCG ACCAATAAGA ACCTTCGCAT CTAAACTAAC AGAAGAAATT TCAACAAGCA   | 91500 |
| ATTTCAAAAT TCTATGACCA GATTCAAGCA GAACAAAAGC ATCTCCCCTT TTATATAGCT   | 91560 |
| CAGCAATTCT TTTAAATCTT TTAAGGCCTT TGTTAGGCAA AAATCCCTCA AAAAAGCTG    | 91620 |
| ATTTATCTCT AAAAGGATTA AACTTACAA TTGTATTAAA AGAACTTACT CCAGGAATTG    | 91680 |

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| GACAAACTTT GTATCCCTCT CTAAAAGCAG CAGCAACTAA TAAGCTACCC GGATCACTAA | 91740 |
| GCCCCGGAGT ACCAGCATCG CTAACAAAAG CAACAGAATT TCCTTTTGCC AAATAATCCA | 91800 |
| ATAGCAAGCT TATCTTCTTG TTTTCTGTTA CGGCATTACA AGAAATCATT TTTTATTAA  | 91860 |
| TTTTATATCG AGACAAAAGT TTGCTAGTTA CTCTCGTATC TTCCGCAAAG ATAACATTTA | 91920 |
| CCGATTTTAA AACATCAATT GCTCTATAAG TAATATCTTC TAAATTGCCT ATTGGCGTAC | 91980 |
| CAACAATATA TAACACAGGC CCTTTTAATT CCTCCAAAAC TAAAAATAAA TAAATATAT  | 92040 |
| TAAAAACATT TTTCTTAATG ATAAAAATCC AAAACCTTTT ACTTACCAA TACAAGAATA  | 92100 |
| AGACATAAGC CATATTTTAT ATGTCTATCA AAATACTTGC TTTTGTATTA CATTTAGTTA | 92160 |
| TATCATTAAG TATTAATGAT TAAAAAGTTA AAAGAAAGGG AAAATTTATG TTTGCATTAA | 92220 |
| TTAGAAAAAT ATTTATGATC TATTTTTTAT GCATTACTCT TGCAGGTTTT GCCATGATTT | 92280 |
| TTATTGACAG CAAATTTACC GAACAGCCTA ATGTTAAAGA AAATCAAAGC AAAATTAATC | 92340 |
| AACATACAAT TGAACCCAAT TTAATCATGT TTACATCTTC TATAGGAGGA TTTTtagGTG | 92400 |
| TTTATGTTGG AATTTGGATC TTAACTATG ACAAAGCAA TTTTACCTA AATTGGGGAA    | 92460 |
| ATTTAATAAT ATTAATATAC AACATAGCCC TAATTATCAC TGTATACTCA AAATCACATA | 92520 |
| GTTAGCTAAC ATATGGCTCA ACTATTTTCA TAATTTATAA ATTATTAACT ATAATACCTC | 92580 |
| TTTAAATCAT AACTTATAA ACCTCTTCGG GATTTTCTAA GCTTCAATC AAGCTTCTG    | 92640 |
| CCCTGTCATT TATTTTTTCT ACCAATTTTT TATAAGCCAC TTTAATTCCT CTGCTTCTA  | 92700 |
| AAAAATCCTT TGCGGGTTGA GAAACAACCC CAGCTTGAAC ATTTTGAAGC CCTATATTAT | 92760 |
| AAATAATAAC GGCTGCTGCC TTGCCACAA CTTTATCATA AATTTCAAGT CCTTCTTTAT  | 92820 |
| TCTGGATATA CTTATTGATA AAATTATCTA CTTCTAAAAG AGGCTTCAAT CCTCTTTCCA | 92880 |
| TATTAGAATA AAGTATTTTA TGATCTTTAA ACAACCTTAA TGTTGGATTC AAGCCTGATA | 92940 |
| TCATTTTTAC CTCTTTTCTG GATATTTATA AAAATCAATA ATAAAAACAA AACTATTAA  | 93000 |
| TAATATACAT AAACAATAAA TACTGCAATA TCTAAAAGA TAGTATACTT ACGTTATATG  | 93060 |
| ATGTTTGTGC CAAAAACAA TAGTAATTCT AAAATTGAAA TAAAGAAATC CATCTTTGTT  | 93120 |
| TCATATATTT TTAATATTGA AAAAAAGAC GATATAAATA AAATATTAA AAAATACAAA   | 93180 |
| ATAAAATTTA AAAATGCTAC GCATGTGGTT TATGGATTGA GAATCGGAAA CAAAAACTCA | 93240 |
| TTTCTAAATG GAATGAGTGA TGATCGAGAA CCTAATTTAA CAGCTGGAAA GCCACATTG  | 93300 |
| GATGCCATAA TACATAACAA TTTAACCGAT ACTTTAATAA TCACATTGCG ATATTTTGGA | 93360 |
| GGCACTTTAC TTGGTAGAGG GGGATTAATC AAAGCGTATT ACAAGTCTGC CAAAGAAGTT | 93420 |

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| ATTAATAATA CATCTATAAT GGAAAAAGAG GAATTAGAAA TTTTAAGCTT AAATTTAACT | 93480 |
| TACAACCAAT ACAATTCATT ATTAAAAATG AAAAATAAAC TTGAAATAGA AATAATAGAT | 93540 |
| TCAAACCTTT CAAACAAAAT AAACACTTCA ATTAAATTCA AAACAAAAAA TAAACAAAAA | 93600 |
| ATATCGGAAT TTTTATAGA AAATGGCTTA ATTCAAGAAA TCTTAAAGTT TAATAAAGAA  | 93660 |
| TAATATGCAT GTCAAATAAT CAAATATTTA AAAACTAATT TAAATATTA TTATTTTTAT  | 93720 |
| CATTTATGTT TTAAAAATA AAAACAAAAC CAAATAAAAA GAGAAATTTA TATGAAAATA  | 93780 |
| ATATCTGTAA TCAATCAAAA AGGAGGCGTA GGAAAAACCA CAAGCGCCAT TAATATTTCT | 93840 |
| TATTCAATGA CCCTGCTTAA TAAAAAATT CTTCTAATAG ATATTGATTC GCAAGGAAAC  | 93900 |
| TCTACTAGCG GCACAAATAC CTCAAAGCAT ATAGCCGAAA AATCAAGCTA TGAACCTATT | 93960 |
| AACAAAAAAA TAAAGGTCAA ACCTTTAAAT CATTTTGGAT TAGACATAAT TCCTTCTAGC | 94020 |
| ATTAAATTAG CTTTGCTTGA AAAAGAATTA ATAAATGAAC TTTCAAGAGA AAATTTTTTA | 94080 |
| AAAAATGCAT TAACACTGTA TGAAAAAGAC AAATATGATT TTATTATTAT CGACTGCCCC | 94140 |
| CCTACACTTT CAATATTAAC TATAAATGCA CTTATTGCAA GCAATTACTT GTTAATACCA | 94200 |
| ATTGAAACGG AATTTTTTGC ATTTGAAGGC ATAAATCAAC TAATAGATAC AATAACTACT | 94260 |
| GTAAAGCAAA TAAATAAAAA TTTAGAGATT GCGGGTGTTT TTATAAATAA ATACGACATA | 94320 |
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| TGGGTAAAAA ATTAGAAACA TCTTCAAATA ATTCAGAAAA TACTGAAAAA AAAGAAATTA | 94620 |
| TTTCGATTGA AAGAAAAAAC TTTGACTACA ATAAGCTAGA TAAAGATATT TCTGATTTTT | 94680 |
| TAAAAAATA GCAATATGAA ATTTTCAATA TTTTCAACAA CACTTATACA AAAATTGGAA  | 94740 |
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| ATCAGTGGTT CAAAAGTATG GGATTTAAAA AAGACAAGGT TTACGCCTTA ATATCAAGAT | 94860 |
| ACAATCTGCT TGTCGAAAAT TCCGACAAGC AGCTCACTAT AGAAAAATTA CCTTTATCAT | 94920 |
| TATCATATGA AATATCTAAA AAATCTTGTC CCCCTATTTT AAAAACCGAA GTTCTAAATG | 94980 |
| GAAAAATAAA TTCTTTAAAA GAATTTAAAA TTGTTTATAA AAAAAGTTTT GATTTAAAGG | 95040 |
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| TAGATTTTAT ATTAAAAAAT ATAAAAGAAT TTAAAAATAT CGAATTTAAC AAATTAAGAC | 95160 |
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| TTTCTGCATC CCTTACAGAA AATTTTTTTT TAAGTATAAT TAAATAAAGA TTATACCTGT  | 95760 |
| CTTGCTGTC TTTTAAGGAT AAAATAACTT TAGCATGCCC AAAAGAAATT TCTTTTCTAT   | 95820 |
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| CCAAGGGCAT AAAATCTTTA CAGGATTCCT TTATGTCAAC CTCTATGACA GGAATATTTG  | 96060 |
| TCAACTGAAT AAGTTTAGCA GCCCTAAACC TTCTTTCTCC TACTATTATT TTATATCTAT  | 96120 |
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| CCATACCCAT TTTTCAAGAA AATCAAAAGA TAAGGATTTT CTTTAACCGA TAAACTTTA   | 96720 |
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| TTTTCATCCT TAAAAACAAT CTCTGCACTT GTAACAAAAT CTTTATCATT CAGTTTAATA  | 96900 |
| ACAATAACAC CTCGTGACTT TACTGCTTTA AAATCTGTAG ATTCGAATCT AGCTATCTTT  | 96960 |

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| AAATCCGACA TACTAGTTTT TAAAACCTCC TCATCATAAA TTATTTTAGT TCGACGTTCA  | 97380 |
| TCGCCAAATT TCAAACCTAA ATTAATAGTT TCTTCTCTTA TAATATTAAT AATCCTTACT  | 97440 |
| GGATTCAAGA GAATATCTTC ATAATCTTTT ATTAAGCTTA ACAGTATATT AAGCTCCTCT  | 97500 |
| TCAAGCTTAA AAATCTCAAG GGCTGTAAGT TTTTGTAACC TCATATCAAG AACTGAATTG  | 97560 |
| GCCTGAATCT CTGAAAGACC AAAATTCGAA ACAAGCCTCT CCCTTGCATC TTTTGCTAAT  | 97620 |
| TTAGATGATT TAATAATCTT AATAACCTCA TCTATATTAT TTAAAGCAAT ATTTAATCCC  | 97680 |
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| ATATTTTTTC TATGCTCAAT AAATTCAAAT AACAATTCTT CTAAATTTAA CTGTTTGGGA  | 97800 |
| ATACCATTAA CAAGGGCTAA ATTATTTATA CTAAATGCT TTTTAAATTC AGTATATTCA   | 97860 |
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| GTAGCCATTC CAACAGCAAT TCCACTAGAG CCATTTACCA AAAGAAATGG AAATGATGAC  | 98340 |
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| TTGTCTATAT CCTTAACAAT ATATTCAGTT ATTTTTTCCA TTTTAGCTTC AGTATATCTC  | 98460 |
| ATAGCAGCGG GGGGATCTCC GTCAATAGAT CCAAAATTTT CCTGTCCCCG TATTACGGGA  | 98520 |
| TATCTAAGCG AAAAATCCTG AGCAAGTCTT ACAAGAGCAT CATAAATTGA TTGATCTCCA  | 98580 |
| TGAGGATGAT ATTTCCCAAG AACATCTCCC ACTATTCTAC CAGCTTTTTT AAAAGCCTTA  | 98640 |
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| TAGCATCATC TATATTCATC AATCTCATTT TTCTTCTAGC AGGATCCATA GTTGTTTCCC  | 99000  |
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| AAATACGATT GTCATACTTT ATTTTATAAA GAGGAGGCAT GGCTATATAT ATATATCCAT  | 99180  |
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| ATCCATCAAC ATCGGCATCT GCCATAATAA TGATCTTGTG ATAACGAAGT TTTGTAATAT  | 99300  |
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| ATGCCAAGCT TTCAAATGCA TTTTTTTTTT TTTCTGATTC TCTTGCTTTT CTTGCAGCTT  | 99600  |
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| TAACATGAGT TCCCCCTTCT CTGTGATTAA TGTTATTAAAC AAAAGAAAGA ATGTTGTCAG | 99960  |
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| TATAATAAGG TTCTGATTGA AAAGCTTTCG TGTCATTAGT TAAATAATCT ACAAAGATT   | 100080 |
| TTATCCCACC CTCAAAATAA AATTTTGAAG ATTTTCTTTT ACCAATTCTT TTATCTTCAA  | 100140 |
| TTGAAATGTA TATTTTATCG TTTAAAAAAG CAAGCTCTTT AAGCCTTTTT TCAAGAACAT  | 100200 |
| CGAAATTATA ATCTAAAGTT TCAAAAATTT CAGAATCCGC CAAAAAAGTA ACCTTAGTCC  | 100260 |
| CCGTAACAGA AGATTCCCCC ACAACTTCTA CTTTAGAAGT CGGAATACCT TTTGAAAAAG  | 100320 |
| TTTGCCTAAA AATTTTCCA TCTCTATTAA CATAAACCTC TAAAAACGAA GATAGAGCAT   | 100380 |
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| TTACAAAAA AATTAAAGAA ATCCTTATAA AAAATGGCTA CAATAACATA GTCATTGTAT   | 101160 |
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| AAAAAATACT CTTAAGAGAG CTAAAAATCA CACACAAAGA TATTGAGGGG CATAGTAAAA  | 102180 |
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| ATGAGCAGAT CCTTTTTCTT GAGGTAAGCA ATTCAAGTAT TTTGTGTAGT ATAGCAATCA  | 104100 |
| ATAAGTCGAA GATAATAAAT TCAGTAAAAG AATTAACAGG TATTAAAATA ATAGATATAA  | 104160 |
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| TTAATTTGTA GCTTGGCAGC ATAAAAATTGT TTTTAATGGA GGAGCGTTTT GAAAAGAACT | 104280 |
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| ACTATTTTGT AGATGATTTG TTTTGTATA AAAAGATAGA TGATTTTAAT CATGAATTTA   | 105180 |
| AAGCTTATTT TAAAAATAAT GGTAAGCTT ATGAATATGT AAAGAAGTAT ACATTTTCGA   | 105240 |
| AAAAAGATGA GTACTTAATG CAATTCAAAG TTAGTGATAA TGGTCTTGAG GATTATAACT  | 105300 |
| TATTTGATTT TGATTCTTAT AAAATTATTT TTAGTTCTGA GATTGAAAGG TTGAGTGATA  | 105360 |
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| AATATGGTAA AGATGGTCTA AGGATTAACA ATCCCAGATG GATTGGTTCT AGTACTAAGT  | 105480 |
| ATTTTGGGGT GTTAGTTTCT AAAGAAAATA TGGAGGTTGA ATTTAAGAAG GAAAGAGGAA  | 105540 |
| CTCTTAAATC GTTTATTATT AATAATGTTA GAAATAAAAA AAATATTAGC GATGAGTTTT  | 105600 |
| TTATTTACGC TGGACCTAAG GATAATAGAT ATTTAGACGT TTTTGACAAG AGAGATGACA  | 105660 |
| ATACCTTTGG TTTATTTGAT ATTTTTTTTG GAATGTCAGT GGAAAAGAGT TTTTGGTATT  | 105720 |
| TGATTCAAGT TCCTATGCAA ATGGTAATGC AAGTTTTTTA TGATGTTATA CCTAATTGGG  | 105780 |
| GGCTTTCAAT TATTTTTTTG ACAATTGTTG TTAGAATACT TATCTTTCCT TTGACATTTA  | 105840 |

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| TTGGTTATTT TTTCTAGGTT TAAGATTGTT TCTCTAAAAA GATCTTGTAT TATAATTAAA  | 112200 |
| TGATTATTTG GGCATTCAAA TGTGATTTTG CTACCTTCTC GTTTTATTGA GAAGGATATA  | 112260 |
| TTGTTTTTTC TTGCATTAAT ATATTGTGAA GAATCATTTT TAATTGTTG TGAAAAAAT    | 112320 |
| CCTTCTTTTC TTAATCATT TTTAAAGTCC CATATAAGAA TTTTGGCTAA ATTATCATAT   | 112380 |
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(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 111309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

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| GTATCTATTA GTAGATTTTT ATATCTATTT GTTAGTGGGT ATAAATTGAG TTCGTTTTTA  | 60   |
| AACTCGTTTA AGTATTTTAA GGCAACAATA GTTGAATTTT TTATTGATTT TGATGAGTTT  | 120  |
| ATCATTCTCG TTGAGTTTAA ATATTTCTTT TCTTGCTTTG GTAGTTTTGG TATTTTTTAT  | 180  |
| TTGATTGAAT TTTGAAATAA TTTTTGGTTC AAACTTTTTT TCTTGTAATAA AATAAATTAT | 240  |
| TGGCAAACCT TTTTCCCTT CGAGTAAATC ATCTCCGAAT TCTTTACCAT TAATTTTATT   | 300  |
| TTTAATGTTT TTAATATCGT CTATTATTTG GAAATAAACA CCAAGCTTTA AAAATGTACT  | 360  |
| GTAAATTTTT TTAGCTTTGT CTTCAATTATT TGTGAGTATT GCAGCTAGAA AGCTGGCCAT | 420  |
| TCCAAAAAGT GAAGCTGTTT TTAATTCTAC TAAAGAGATG TATTCTTTAA TACTTGGGAT  | 480  |
| GTATGACTCA TTGTGAAATT TAATATCAAT TCCTTGTCCT AGGTGGAGAT TTGAAAGAGT  | 540  |
| TGTAAAGAAA TTTTCATAAA TTAATAATTT TTGATTTTCT TTTAAATTG ATTTTCTAT    | 600  |
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| GATTAAATGT ATTGCTGATG CACCGCGTCT TTTTAGTGAA TTGTCTTCAA TGTCATCAAT  | 720  |
| AATCAAGCTT CCAGAATGAG GAAGTTCAAG CAGCAAGCTT AATTTATATA TTAGTTTGGT  | 780  |
| ATTTTTTTCT TTTAAACCCA ATGCATATGC TAAAAGAATC ATTATCATTG GTCTTATTCG  | 840  |
| TTTTCCGCCC CTATTAACAA TTTCAATTGC TGGTGCTTTA ATATAATCAA GGGTTTCCTT  | 900  |
| TTTTATTTTA AAAGTAAATT TTAAATCGTT ATCTTTGAAT AAATTTAGAA AATTAGTTGT  | 960  |
| TGAAAAGATT TTATTAATAT TTTTTTCAAT ATTTTTTAAA AATAGTTTAT TTTGCATAAT  | 1020 |
| AAGAATTATA ATGAAAAAGT ATAATAAAGT GTATTAAAGG GATTGATGTG TATCGCTTGG  | 1080 |
| ATGATGAATA TTCTAAAAA GCCAAAAGAG AAGGATATTT GGCAAGGTCT GTATATAAGT   | 1140 |
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| CTGTTGATAT TAATGATATT GGCTTAGAT ATGATGATAA TTTTATTTT ATAAAGGGAG    | 1320 |
| ATATCTTTTT AGATGATACA GTTTTTAAAA TTAATACGTT TAAACCTTAT AGTCTTGTA   | 1380 |
| TTAGTGATGT GGCTCCCAAG ACTACTGGAA ATAGACTTGT AGATACCAGC AATTCTTTTA  | 1440 |
| ATTTAAGCAT GAGAATAATA GATTTATCAC TTGAAGTTTT ACTTAAAAA GGGAATTTAC   | 1500 |
| TTGTTAAAGT TTTTCAGGGA GGAGACGAGA TGCAAATTTT TAAAAGTTT GAAAAATATT   | 1560 |
| TTAAATTTGT AAAAAAATT AGACCCAAAG CTGTAAGGAA AAATTCTTTT GAAATTTATT   | 1620 |

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|---|------|
| TTTTAGGCAA AAGTTTTGGC AAGTAGCAAA TTAATCAAAT TGTTATAAAC AGATTTAAAG | 1680 |
| GTATAAAATA TGTTTAGAAA AGAAAGTTCT AAAGACAGCA GATCACAGCT TCAAGTTGCA | 1740 |
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| AAAGTTCCAT CAGAAGGAGT TTATGCTATA CCAAATGTTC CCGAATATAT TATAGGTATT | 1860 |
| TATAATCTTA GAGGCAGTAT TATTCCTTTA ATTAATTTAA ATATTAAATT TGGAGTTCCT | 1920 |
| TCTATTTTCG TAACAGAAGA AGACATGCTT TTAACAGGAT ACTTAATAGT TAAGATTAAA | 1980 |
| AATAAGCTTT TAGGCATTTT TGTTGATAGA GTTCTTAAAG TTATTAGCTT TGATGATTCT | 2040 |
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| GTAAAGCTTG ACGAGGCTGA TAATCTTGAG AGTGAATACT TAGTATTAAT TGATATAGCA | 2160 |
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| AGTTTATTTA GAAACCAAGT ATTTTGTTGA AGTAGTGTTA ATAGATGTTG GCAGACCTTT | 2340 |
| ATTTTCTTTT CAAAAGAAA ATTTTCTTTT TTTGATAACT TTAGGAGGAG ATGGCACAGT  | 2400 |
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| TAATATGGGC AATGTGGGAT TTTTAGCAGA TATTAAGATT GAAGATTTTA AAAAAGTCAT | 2520 |
| AGATAGATTT TTTAACAATT CTTTGTTTAT TAATAAAAAA TTTTGTCTTC ATGTAACAGT | 2580 |
| TTCTCAACAC GGTAAAGATT TAATTTCTAA ATATGCTTTA AACGATATTA TTATTCGCTC | 2640 |
| AAGCGTTCTT AATAAAATGA TTTATGTAGA TCTTATGGTT AATTCTGAGA GTTTTTTATC | 2700 |
| ATACAAAAGT GATGGGATAA TTGTGTCTAC TCCAACAGGC TCAACAGGAT ATTCTTTCTC | 2760 |
| AGCAGGGGGT CCTATTTTAG AAGCAGATCT TGAGGGATTT TTACTTACGC CTATTTCTCC | 2820 |
| ACATTCTGTT TATAATCGTT CTTTGTGTT CTCTAAATTA AGTAACTTT CCATTTCTTT   | 2880 |
| TTCAAAGGAA TATTTTATAG CAGCAGCATC AATTTTTTTA GATGGAATTA ATTTTGGTTC | 2940 |
| TTTCGGAGTT GACGTTGTTT TTGAATTTAA AATTTCTTCT CAAAGCTTGA ATTTTGTTC  | 3000 |
| ATTTTGTACG GATACTTTTG TTAAGAGATT AAAAAACAAA TTATTGTAAG TTCAATGTTT | 3060 |
| TTTTAAACAG TGTCTTTTTT AATAAAAATT TTTCTGGTT GTTGTTTGAA TGTTTGGTTT  | 3120 |
| AATCTAATCT TTAATAAGGT TAGAGGATTT TACATGTTTT ATTATAAGGA TTTAATGTT  | 3180 |
| TTGTTTATTC GCAGAGTTAA TGTTTAAAGG GTGTTTTTTA TAAATTTATA ACTTGTTAAA | 3240 |
| ATATTTAATA TATTTTTTGC TAAAATCAAT ATATTAGATA GCTGATAAAT CACCCTTTTA | 3300 |
| TGAGTTTTAG GCAGGTGTTT ATGGATTTAA TTGATAATGA AAATTATAAA AAAATAGTGT | 3360 |
| ACATTAATAA TCTTGTTTTA AGGACTTTAA ATGATATAGC AGCTATAAAA GAGACTGGCG | 3420 |

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| AATTTACATC AAATGCTAAA CTTTCATTTA ATCTTATTGA TTTCAATTTA AATGTTTTAA   | 3480 |
| GTTATATTTT TTCTTTTAAAT TATTTTTTATA CTAGGCCTAG ATTGAAAGTA AATTATTCTA | 3540 |
| TAAAAAAAAT TTTGTCTGGG TTGATTTCTG ATTTTAGTTT AGTTATTAGC CCTGTTCTTA   | 3600 |
| GTATTACTCC AAGAGAGTTG ATTGAAATGC CTCAGGCTCT TAATTTAAAT CCAGAAGAGA   | 3660 |
| GGTTTTTAAT TATTAAAAA TTAGGTTATT TAATTGATTT GGCTAAAATT TTTAGCAAAA    | 3720 |
| AAGATTCTAA AACACTTGTT TTTCTTGAGG ATATGTATCT CAAATTTATT GTTTTTTCTA   | 3780 |
| AAAATATTAT TGATTTTAGA GATTTTTCTA AGAATTTAAA ACTTGAGAGT CCTTATTATA   | 3840 |
| AATTTCAATT TGAACACCTT ATTAAAGTGT TGGAGCTTTT AGAAGAAGGA GCTTTTATTT   | 3900 |
| TAAGGGGCAA ATATGAGATT ACTGGATCTC ATGAATTGG ACTGCATTCT CTTGGTTATC    | 3960 |
| TTGAAGCTGG AAGAGCTTTG GCTACTATAG CCTCTCAAAA AGAAGCTGCT GAAAAATTTT   | 4020 |
| CAAGGTTTCA TGGAGTTTGG TCTTCAAAGT TTAGTTCAGA TTTAATTAAA GTAAAATAGA   | 4080 |
| TAAATTAAGG TGGGGAGAAA GTAGTTATAT TGAGTTTTAA TGTAGAAGAG GGCACATTA    | 4140 |
| AATTCAAAAA ATTAAAATTT TTTTGGATTC TAAGCTTGTT TTTATTATTT ATAATTTTGA   | 4200 |
| TTGATTTTTT TATAAGATCT ACTATGAATG TATCTAATTT TTATGATTTT AAGAATTTTG   | 4260 |
| AAAATAAATC TGATTGTAAA AATATAAATT TAAGTAAGAA TGTTTTTGTA TCAAATAAGG   | 4320 |
| TTTTAAGTCT TAATTTCTGGG GAATCTTGTT ATTCTCTTTT AAGTGATAAC TTAATAAGTT  | 4380 |
| ATTCAGACTA TTATTATGTG CTTTTTAATT CCGGCGAAGA TTATTCTGTT TTTTCTGTTA   | 4440 |
| AAAACAATAA ATTTTTATTT AACTCAAGC TAAAGGATTT TGTTTTTGCA ATAAATAATT    | 4500 |
| TAATTTTTTAC TTAAATAAT TTATATAAAA CTTTAGAAGT TTATGATTCT AGCGGAAATA   | 4560 |
| ATATACTAAT GCTCAATTTT TTGTCTCAA TTTTAAGTGT GGAATAAT AATGAAGTTT      | 4620 |
| TGGTTTTGGG ACTTTCTAAT GGTGAGATTT ATATATATAA ACAGGGTAAG ATAATTTATA   | 4680 |
| TGGAAAATTT TTTAGAGAGA AAATTTCCAA CATGTTTTGT TAAATTAAGC TCCGATAATA   | 4740 |
| AATATTTGGT TTCACTAAAA GGCAGTTCTG AGTATTTTTT AGAAATAATT GATTTAGAGA   | 4800 |
| ATAATTATAA AAAAATTTTA GAATTAAACA ATTTAACCAT TAATAGTTTT GAGACTTTTA   | 4860 |
| TAAAAATAGA TGATTATCAT AATTGTTTA TTGAAGGCAA AAATTCACCT GCGGTGATAA    | 4920 |
| ATATTAAAAG TGGTAGAATA TTTAAGGTTG AAAATAAAAA TTCTATTTTA AGAGCGTCAT   | 4980 |
| ATGATTATTT TCAAAATATT TATAGAGTAT ATTTTTATTC TGAGAGTGAA AAAATCATT    | 5040 |
| ATATAAAAAC TTATTCTGCA AATTCTTTTA AATTGTTTGA TAATATTTTT ATTAAAGATG   | 5100 |
| AAATAAGCTC TTTTGTTGAA TTTGGAAAGG GACTTTTGTA TTTTAATAGT AATAATGATT   | 5160 |

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| TGGTGTGTTG GATAATAATA AGTTGAATAT TAGCCTAAGG TTAAGGCCCT TGGAAAAAC  | 5340 |
| CGTATCTGTT TTTTCCAATA ATTATAAAAT TTTATATTCA AAAAATAGTT TAAATAGGGA | 5400 |
| TGGTAGTATT TTAATTATTT TTGATAATGA TTTAAATCTA AATTTAGAGG TTTTGGGGG  | 5460 |
| ATTTCTTTAT AAGCTTGGAA AAATTTTTTT AAAAGATGAA AAGAGTGTTA TTGATTTGGT | 5520 |
| AGTTAATGAT CCTAGTGCTA AAAAAATTAT CAATCCTTTG TTTATTATCA AAAATAGGAA | 5580 |
| CAATGTGGTT GCTGAGACAG TTTATACATT GGGTAGGGTT TTTTAAAAAG GAAAGGGCGA | 5640 |
| TGATGAAAGA TTGGAATTAT CAAAAAATAT AAATTTAAAT GTAGATTCTG GTCAATACAG | 5700 |
| TCTTTTGTTG TATTTTCATA CTCAAAAAGT AGAATCTTTT GAAAATTCTC TTAAAGGAAT | 5760 |
| TTATTATTTT GAAGCTATTT TGAATAATAA AAGTATTCTT CGTTCAGATT TTCAAAATAT | 5820 |
| TTTTTTGATT AATGATACAC ATACTTTAGC CCAAGAGAAA AATTATGGGT TAGATATTTT | 5880 |
| GAACATTAAA AAAGATGGGG GATGTCTTAA GATAAATGAT CTTAATTTTG TTAAGGGTAA | 5940 |
| GAATGAGCTT AAAATAAAAT ATGGCGATGT TTATGGAAAT GAAAAAAAAA TAATTTATAG | 6000 |
| GTTTAAATTA AATGAATAAT AATGCTTTTC ATTTTCCAGT ACTTCTTGAT GCAATTTGTA | 6060 |
| AGCTTATAGA AGATTTGCCC GTAAAAAGTG ACTTAATATA CATTGATTCT ACTCTGGAG  | 6120 |
| AAGGTGTTCA TGCAAAGGCT ATTCTTGAGA AATATGACTT TTTAAGTTTG GTTGGAAATG | 6180 |
| AAAGAGATCC TCAAATTTTA GAAAGAGCAA GGCAGTTTCT TTCTATTTTT GAAGAGAGAA | 6240 |
| TTACATATTT TAATGATTGG TTTGATAATT TTTTCGTCAA TTATCCTTTA AATGTCAAAG | 6300 |
| CCAATTTTAT TTTAGTTGAT CTTGGTATTT CTATGTTTCA TTACAAGGGT AGTAAAAAAG | 6360 |
| GATTTTCTTT TCTTGAAGAT GAGCCTTTAG ATATGAGGCT TTGTTCTTCT TCTTGCAAAA | 6420 |
| TTAGTGCGGC TGAGATTGTA AACACTTATA GTAAATATGA CCTTGAAGCT TTAATTTATG | 6480 |
| ATTTAAGTAA TGAACATTAT TCTAGAAGAA TTTCTAAGGC TATTGTAGAA TATAGAAAAA | 6540 |
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| CAAAAGTTAA AATAAATCCA GCTACAAAAA CTTTCAAGC GTTAAGAATT TATGTAAATG  | 6660 |
| ATGAGCTTGC TCGGCTTAAA AGGAGCTTGC CTTTTTGGGT AGAAAATTTA GCTAAAGATG | 6720 |
| GAATTTTAGC TATTATTACG TTTCATTCAA TAGAGGACCG TATTGTAAAA GATTTTTTTA | 6780 |
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| ATGAGATTAA AAAAAACAAA CCTTCAAGGA GTGCAAAACT TAGAGTTGTA AAAAAATTAT | 6900 |
| GAACAGCATA AGTAAGATTG AATTTAAAGT TTATTGTATT TTAGTTTTGA TACTAACAGT | 6960 |

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| GTGGGCCCTT ATATTATTTT AAAGTTAAAA AAATTAAGAG CTGATCAGAT TTTAAGAGAA  | 8760  |
| GATGGCCCTA AAAGACATTT AAGTGAAAAA GCAGGAATTC CTACCATGGG GGGCATTCTT  | 8820  |
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| GTAATATTC TTGGGGCCTT GCTTGGGGT AGTTTTGGAT TTTTGTGGT TAATGCCTAT     | 9360  |
| CCTGCTAAAA TTATGATGGG AGATACAGGT AGTCTGGCTT TGGGGGCCAT TCTTGAATG   | 9420  |
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| ATTCCCAGGC ATTTCTAATT TAATAGAAGA GGTATTTAAT TATCCTGCAA GAATAGGTTT  | 12600 |
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| GTCTGGCAAT CAAAATGCTC CTTCTGGATC TTATGAGCAA CAAGATTCTT CTTTTGCGGC  | 13920 |
| AAAGTCCAAA AATGTTAATT ATTTTGATGA TGACATTGAT GTTCCAACAT TTCTTAGAAA  | 13980 |
| TTTAAATAAA AAAAGTAGCG ATGATTAGAT GAAAATTTTG TGTTAATAA TTCTTGTTAA   | 14040 |

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| AGAATTGGAA ATTTTCAGGTG GTGGATCTGA ATCTAAGATT GAAGTTTATA AAGAATTTAT | 14160 |
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| AGAATTACAA GAAAAAGTTA TTCAAAGGAC CAAAGCCAAA GTTGCTATTC TAGGGTCTAA  | 14940 |
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| CAATTTACCA GATTGTTCTT TATTATCTTG GGCTGTTGTT GGTTC TAGAA AAATTAGTAA | 15060 |
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| TAAGAGAACA TTTGCTGTTA TTCCAACAGA TATTGACAAT ATTTATCCTA GGCAAAATCG  | 15240 |
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| AAATATTAAA TATGTAGATT CCAATAATAT TGAAGATGAT TCTAAAGAGT GTTGTAATTG  | 15600 |
| TAAAAATGTA TCTGATGTTT TTATTGGGGA ACTTTTAAAA GAGGTATGTA AATAGGGGGG  | 15660 |
| TAATATGAGC TTTAAAGGAA CCACAGTTAT TGCAATAAAA AAAAATGGTA AGACTGTGGT  | 15720 |
| GGCAGCAGAT GGACAAGTAA CTTTGGGACA TACTGTTTTA AAGAGTAATG CTATTAAAT   | 15780 |

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| ACGAAAATTG CTTAATGGGA AAATTTTGGC AGGATTTGCA GGTTCACAT CTGATGCAAT   | 15840 |
| TACTCTTTTT GAAAAATTTG AAGAAAAAT CAAAGCAAAA GGTGATGGCT TGATTGACAT   | 15900 |
| TAAAAGGGCG GCTGTTGACC TTGCAAAAGA TTGGCGTTCT GACAAAATAC TGCATAAGCT  | 15960 |
| TGAGGCTATG ATGCTTGTTG CTGATTCTAA CAATATTCTT TTGATTTCTG GTACTGGTGA  | 16020 |
| TGTTGTTGAG CCTGAAGAGG ATGTTATTTT GATTGGCAGT GGTGGTAATT ATGCATATTC  | 16080 |
| AGCAGCTCTT GCTTACATGG AGAACAAAAA ATTAAGCGCT TTTGAGGTTG CACTTAGATC  | 16140 |
| TTTAAAAATA GCAGCAAGAG TGTGTATATA TACTAATTCT AATATTGTGC TTGAGGAGAT  | 16200 |
| TGAAAATGAA TAAATTAGAA GAGCACTATA TAGTTCCCAA AGATGTAGTT GCAGAACTTG  | 16260 |
| ATAAATATAT AATAGGTCAA GACGAAGCTA AAAAATTAGT ATCAATTGCT CTTGTTAATA  | 16320 |
| GATATATAAG GTCTAGGCTT CCAAAAGAAA TAAAAGATGA GGTAAATGCCT AAAACATTA  | 16380 |
| TTATGATTGG ATCAACTGGC ATTGGGAAGA CCGAGATTGC AAGAAGACTT TCTAAATTAA  | 16440 |
| TTAAAGCTCC TTTTATTAAA GTTGAGGCTA CAAAATATAC TGAGGTTGGT TATGTTGGTC  | 16500 |
| GTGATGTTGA ATCTATGGTT AGAGATTTAA TGAGCATTGC AGTTAATATG GTAAAAGAAG  | 16560 |
| AGATGTATAG TACTGTAAGA GATGATGCTT TAGTAAGAAC AGAGGAGAGA ATAGTTGATA  | 16620 |
| GTCTTTTTTAA GGGATCTAGT AATTCTGAGA ATATGGATCC AAATGAAATA AAGGCGGAAG | 16680 |
| AAAAGGTAAA AGAGAAGCTT AGAAAAAGC TTAGAGCAGG TGAGCTTGAT GATACTACTA   | 16740 |
| TTGAAATACA AATTTCTAGT AAAATGCCAT TTTCTACAAT AGAAATATTT ACGGGTGCTA  | 16800 |
| ATTTTGAAGA GATTGATATG GGAATTGGCG GTTTGCTGGG TAATATATTT GATAGAAAAA  | 16860 |
| AGAAAAGAGA ATTGAAGATT AAAAAAGCAA AGGAAATAAT ATTAGCAGAA GAGCTTGAGA  | 16920 |
| AATTGGTCGA TCACGAAAAC ATTTGAGATA TTGCAAAATC TAAAGTTGAA AATATGGGAA  | 16980 |
| TTATTTTTTAT TGATGAGATC GATAAAATAG CTGCTAAGAA TAGGAGTGGC AATGATGTGT | 17040 |
| CCAGAGAAGG TGTTCAAAGA GATATTTTGC CAATTATTGA AGGTTCTAAA GTTAATACAA  | 17100 |
| AATATGGAAT AGTTGATACT TCTCATATTT TATTTATTGC AGCAGGAGCA TTTAATTTAG  | 17160 |
| CTAACCTTC TGATTTAATA CCCGAGCTTC AAGGAAGATT TCCTATTAAG GTTGAACCTA   | 17220 |
| AGAGCTTAAG CATAGACGAT TTGAAAAAA TTTTAAACA AACAAAAAT TCTTTAATAA     | 17280 |
| AACAATATGT TGCATGTTT AAGGTTTATG ATTTAGATTT AAAGTTTAGT GAGGAAGCTA   | 17340 |
| TAGATAGAAT TGCAGAGCTT ACTTTTAATA TGAATCTTGA GAGTGAAAAT CTTGGTGCCA  | 17400 |
| GAAGACTTCA CCGTGTTATG GAAATAGTGC TTGCAGATCT TTTTTTTGAA GTGCCTGGCA  | 17460 |
| GTAAGTTGAA AAAATTTGAA ATAACTTGG ACTATGTAA TAAAAAATA CAAATTAACG     | 17520 |
| AACAAAAAGA TTTGAATTAT TATATAATTT AGTTAAAAGC AATTTTAAAT GAGGGAGGTT  | 17580 |

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|------------|------------|-------------|-------------|------------|-------------|-------|
| TCAATTTGAA | TGATTTTGAA | AGATCTGTAG  | ATTTTTCACA  | TAGGTATTTA | GATGTTTTGA  | 17640 |
| GTTTAAGACA | AAGCGTTATT | TCTGACAATA  | TAGCAAATAT  | AGATACTCCA | AATTTTAAAA  | 17700 |
| GAAGCAAAAT | TTCTTTTGAA | TCAGAGCTTG  | AAAAGGCTTT  | TTTAAATGAA | GATAAAAATG  | 17760 |
| ATTTAAACTT | AATTAAATCT | AGTGATAAGC  | ACCTGTCTGG  | GTTTAAAAAT | CTAAAGTATT  | 17820 |
| CAGATGTCAA | GCCTCACAGA | GTTCTTGACC  | ATTTTTC AAC | TATGAATAAT | AATGGCAATA  | 17880 |
| ATGTTGATAT | TGATTCTGAG | GTTAAGGCAC  | TTGTGCAAAA  | CCAAATGATG | TATCATCTTA  | 17940 |
| TGACTAATGT | TCAGGCGCAT | TATTTTAAAA  | GTATAAATAT  | TGTATTAAAA | TAAATTAATA  | 18000 |
| TCTTAAGGAA | TGTAAAATGG | GATTGTTTTC  | AAGCATTAAT  | GTAGCTTCAA | CGGGATTAAC  | 18060 |
| AGCACAAAGG | TTAAGGATTG | ATGTTATTTT  | TAATAACATT  | GCAAATGTTT | CTACTTCTAG  | 18120 |
| AACTCCTGAT | GGTGGACCTT | ATAGAAGGCA  | AAGGATTATT  | TTTGCACCAA | GGGTTAATAA  | 18180 |
| TCCTTATTGG | AAAGGGCCTT | TTATCCGGA   | TTATCTTGAT  | AATGGCATTG | GTCAAGGAGT  | 18240 |
| TAGGGTTGCT | AGCATTGAAA | AAGATAAATC  | TCCATTAAAG  | TTAAAATATG | ATCCAGCTCA  | 18300 |
| CCCCGATTCA | ATAAGTTCTG | GAGATAAAAA  | GGGTATGTGA  | GAGCTTCCCA | ATGTTAATTT  | 18360 |
| AGTTGAAGAA | ATGGTAGATA | TGATTT CAGC | TTCTCGTGCT  | TATGAGGCAA | ATTCTACTGT  | 18420 |
| CATCAATAGT | AGTAAGTCTA | TGTTTAGAAG  | TGCGTTAGCT  | ATACTTCAAG | GCTAAAGGAG  | 18480 |
| AGATCATTGG | TGAGAACAGA | TGCTTTTTTT  | ACAGAAAATA  | ATATTAATTT | GGTTAAAAAA  | 18540 |
| AATCCTTTGC | ATTTTGATGT | GAATCTTTTT  | AGTTCTAAAA  | GTAATGCCAA | AGACAATGAT  | 18600 |
| ATTAAAACTT | TTAAGGATGT | TTTAATAAAT  | TCGATTACTG  | ATGTCAACAA | AAGCCAATTA  | 18660 |
| AATGTTTCCA | AGGTTACAGA | ACAAGCTATT  | CTTAAGCCTA  | GTAGCATTGA | TGTT CATGAT | 18720 |
| GTTGTAATAG | CGATGTCTAA | GGCGAATATG  | AATTTAAGCA  | TTTTAAAGGC | TGTTGTTGAG  | 18780 |
| AGAGGTGTGA | AGGCTTATCA | AGATATAATC  | AATATTCGTT  | AAGGAGCCAT | AAGATTTTGA  | 18840 |
| GCAAATTTTT | TACTAATTTT | TTTGTTTCAG  | CAAAAGGAAT  | CTTCAAAAAA | GCTAGTACGG  | 18900 |
| TTCAGAAAAT | AGCCTTAGGA | TTGATTATTT  | TTTTTGTGAT  | TCTTGCGCTT | GTTTTTTTAA  | 18960 |
| TAGGGTTTTT | TACTAAAAGT | CAAAGCATTG  | CTCTTTTGG   | GGTTGAAATT | AAAGATCAAT  | 19020 |
| ATCTCTTAGA | TAGGATATCG | CAAAGACTTG  | ATAGGGAAAA  | TGTTAAGTAT | TTTTTGAGTT  | 19080 |
| CTGATGGAAG | AATTTATTTA | GATGATGAAA  | AGCTTGCAAA  | AAAAATGAGA | GCAATTCTTG  | 19140 |
| TCAGAGAAGA | GCTTGTGCCC | GTT CATATGG | ATCCATGGGC  | TTGTTTGAT  | ATTGATAGGT  | 19200 |
| GGACTATTAC | TGATTTTGAA | AGAAGCATT A | ATCTTAGAAG  | ATCTATTACA | AGAGCGGTTG  | 19260 |
| AACAGCATAT | TGTAGCTTTA | GATGATGTTG  | ATGCTGTTAG  | TGTGAATCTT | GTTATGCCCC  | 19320 |

|             |            |             |            |            |            |       |
|-------------|------------|-------------|------------|------------|------------|-------|
| AGAAAGCTCT  | TTTTAAAGAG | TCTCAAGAGC  | CTGTTAAGGC | ATCTGTTAGA | ATTACCCCAA | 19380 |
| GACCCGGTTC  | TGATATTATT | ACCAATAGAA  | AAAAAGTTGA | AGGACTTGTT | AAACTTATTC | 19440 |
| AGTATGCCAT  | TGAAGGTCTT | GAATCTGACA  | ATATTGCTAT | TGTTGATAAT | AGTGGAACTA | 19500 |
| TTTTAAATGA  | TTTTTCTAAT | TTGGATGGGA  | TAGATAGAAT | AGACTTAGCA | GAAAAAGAGC | 19560 |
| GTAAGTTAAA  | GCTTAAGTAT | GAAGCTATGC  | TTAGGGGTGA | AATCGATTCT | GCATTAAGTA | 19620 |
| AGGTTTTGTC  | TGTTGATAGA | TTTATGATAG  | CAAGAGTAAA | TGTAAAGCTT | GATACTTCAA | 19680 |
| AAGAAACTAC  | AGAGTCTAAA | GAGTATGCCC  | CTATTGAGCT | TCAATCTCAA | GATCCAAAAG | 19740 |
| CTTCTTATAA  | CACTAGGAAA | GTAAGCGATT  | CAACTATTAT | ATCTTCTCAG | ACTCAAAAAA | 19800 |
| AAGAATATCA  | GGGTCAAGGA | TATAGTCCCT  | GGGGACCTCC | TGGGCAGGAA | GGCAATACCC | 19860 |
| CTCCTGAATA  | TCAGGATTTA | AGTGATATTA  | CTGGTAAATA | TAATGAGTCT | CAAGAGATCA | 19920 |
| AAAATGTTGC  | TTTGAATGAA | AAAAAATCTA  | CAAGCGAAAA | AGAGCCCGCT | AGGATTGTAG | 19980 |
| GTGTTTCTCT  | TGGTATTTTC | GTAGATGGTA  | TTTGAATTTT | TGTGTACGAT | GAGAAGGGAG | 20040 |
| ATTTTCGTAAT | AGAAAATGGA | ATGAGAAAAA  | GAGAATATAA | GCCTATGGCA | TTAGAAGAAA | 20100 |
| TAAAAAATAT  | TGAAGATGTT | TTGCAAAGTT  | CTTTTGAATA | TAAGCCAGAA | AGAGGCGATT | 20160 |
| CAATAACGGT  | TAGAAATATA | TCTTTTGATC  | GTATGAATGA | ATTTAGAGAA | ATAGATGAAA | 20220 |
| ATTATTTTGC  | AAGTGAAAGG | TTTAAATATT  | TCTTATTTAT | TGCAAGTATA | GTATTTTCAT | 20280 |
| TATTAATTTT  | AGTATTTACG | ATATTTTTTG  | CTATTTCTAG | AGAACTTGAG | AGACGAAGAC | 20340 |
| GTCTTAGAGA  | AGAGGAATTA | GCAAAGCAAG  | CACACTTAAG | GCGCCAACAA | GCCTTAATGG | 20400 |
| ATGGTGGTGA  | CGATATTGGC | GTTGACGATG  | TTGTTGGTGG | GATTAGAGAA | GGCGATGAGC | 20460 |
| TTCAAAGCAA  | TGCTGAGCTT | TTAGCCAGAG  | AAAAGCCAGA | AGATGTTGCT | AAGCTTATAA | 20520 |
| GAACATGGCT  | TTTGAAAAAC | GCGTAAAAGG  | TAGTAATTGA | TATGGAAGAA | AAAAAAGAAA | 20580 |
| AGGAGATTCT  | GGATGTTTCT | GCTTTAACAG  | GCAAGCAAAA | GGCCGCTATT | TTGTTGGTTT | 20640 |
| CAATAGGTTT  | TGAAATCTCT | TCTAAAGTGT  | TTAAGTATCT | TTCTCAAGAA | GAGATAGAGT | 20700 |
| CTTTGACATT  | TGAGATAGCA | AAGCTTGAGA  | CAATTACTTC | TGAGCTTAAA | GATAATGTTC | 20760 |
| TTTTAGAGTT  | TAAAGAATTA | ATGATGGCTC  | AAGAATTTAT | TCAAAAGGGT | GGAATTGATT | 20820 |
| ATGCAAGAGA  | GCTTCTTGAA | AAATCTCTTG  | GGACTCAAAA | AGCAGTTGAT | ATTATTAATA | 20880 |
| ATTTGGGTTC  | TGCTTTACAG | TCTAGACCCCT | TTGAATTTGT | AAGAAGAGCA | GATCCTGCGA | 20940 |
| ATATTTTAAA  | CTTTATTCAG | CAAGAACATC  | CCCAAACAAT | TGCTTTAATT | CTTTCATATC | 21000 |
| TTGATCCTCA  | AAAGGCTTCT | TTTATTCTCT  | CTAGTTTGCC | CACAGAAGTA | CAAACCAATG | 21060 |
| TTGCAAGAAG  | AATTGCGTTA | ATGGATAGAA  | CTTCTCCTGA | GGTTGTAAGA | GAGGTTGAGA | 21120 |

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|------------|------------|-------------|------------|------------|-------------|-------|
| GGGTTCTTGA | GAAAAAACTA | GCTTCTCTTT  | CTTCAGAAGA | TTATACATCA | GCAGGAGGAG  | 21180 |
| TTGACAATGT | TGTTGAGATA | ATTAATATGG  | CTGATAGAAA | AACGGAGAAG | TTTATTATTG  | 21240 |
| AATCTCTTGA | AGAAGAAGAT | CCAGAGCTTG  | CAGAAGAGAT | TAAGAAGAAA | ATGTTTGTGT  | 21300 |
| TTGAGGATAT | AGTTTTACTT | GATGACAGAT  | CTATACAAAG | GGTTTAAAGA | GAAATAGATG  | 21360 |
| GTCAAGAGTT | GGCAAAAGCT | TTAAAATCTG  | TAGATATTCC | TGTCCAAGAA | AAAATTTTCA  | 21420 |
| AAAACATGTC | AAAAAGAGCG | GCTTCAATGC  | TTAAGGAAGA | CATGGAATTT | TTGGGACCTA  | 21480 |
| CTAGGCGAAA | AGATGTTGAG | GAATCTCAGC  | AAAAAATTGT | TTCTCTTATT | AGAAAATTAG  | 21540 |
| AAGAACAGGG | AGAAATAGTT | ATTTCAAGGG  | GTGGTGAAGA | AGATGTGCTT | GTCTGATAAA  | 21600 |
| GGAGTTTTGT | TTGCCTAAGG | TTTTATATAA  | ATCATCAGAA | GTTGATAATT | TAGTAAAGTT  | 21660 |
| TGAGTTTGT  | GAGATAGCAA | AGCCTGTTTT  | TGAATCTTTG | GAAATCAAGG | AGAAGGAAGG  | 21720 |
| CAAGGTTTAC | GACATAGAAA | GTCAAATCTC  | CAATCTTAAA | GAAGAGTTGC | AACTTTTAAG  | 21780 |
| AGATGAAAAA | TTACAACCTG | AGGAAGAGCT  | TGCTAAAAGG | CAAGAACTTG | CCAAAGAGGA  | 21840 |
| AGTTCAAATT | GAATCTAAGC | GGCTTATTGA  | AGAAGCTAAG | GCAAAGGCTA | ATGAAGTATT  | 21900 |
| AGAAGCAGCC | AAACAAGAAG | CAGATCTTTT  | ACAAAAAGAA | GCTATTTATA | AGAAAGAATC  | 21960 |
| TATTGAGACT | GAATCTAATG | CCGAGATTGA  | AAGATTAGCA | AGAGAGTATG | AAGAAAAATT  | 22020 |
| AAAAACAGAT | CTTGAGATAG | CAATAGCTAA  | AGGTAGGGAA | GAGGGATATA | GCAAAGGTTA  | 22080 |
| TGAAAGTGGT | TTTGAAGATT | TTGACAAAAGT | TATGAGAAAA | TTACATGTTA | TAATAGCATC  | 22140 |
| TCTGATTGCT | GAAAGGAAAG | GTATTCTTGA  | ATCTTCGAGT | GGCCAGATAG | TGAGTCTTGT  | 22200 |
| TATGCAAATT | GCAATTAAAG | TTATTAAGAG  | GATTACAGAT | TCTCAAAAAG | ATATTGTTTT  | 22260 |
| GGAAAATGTT | AATGAGGTTT | TGAAAAGGGT  | AAAAGATAAA | ACACAGATTA | CCATTTCGTGT | 22320 |
| AAATCTTGAT | GATTTAGATA | TTGTTAGACA  | TAAAAAGAGT | GATTTTATTT | CTAGATTTGA  | 22380 |
| TATTATAGAA | AATTTAGAGA | TCATAGAAGA  | TCCCAACATA | GGCAAAGGCG | GTTGTATAAT  | 22440 |
| TGAAACTAAT | TTTGGAGAGA | TTGATGCGCG  | CATTCTTCT  | CAACTTGATA | AAATAGAGGA  | 22500 |
| AAAGTTTAAA | AATTTTTCTT | TATTAAGTTA  | AGTATCTAAA | GGAATTTTAG | TGAGCAATTT  | 22560 |
| TTTTGAAAAT | TATTTAAGAC | AAGTAGATGA  | TATTGAAACT | GTTTCTTTTG | TTGGCAGGGT  | 22620 |
| GCAAAAAATA | AAAGGTCTTT | TAGTTGAGAG  | TTTAGGGCCT | CAGTGCGCTA | TTGGAGATTT  | 22680 |
| GTGTTTAATT | GATCAAAGAA | ATGGCAAAAA  | GGTATGCGCA | GAGGTTTLAG | GATTTAATGG  | 22740 |
| TCCTTATGTT | AGCCTTATGG | CCTATGAAGG  | ATTTAGCGGG | ATTGAAGTTG | GAAATAAAGT  | 22800 |
| TTATTCTTTA | AACAAAGGGC | TAGAAATAAA  | TCTTAGTGAT | GAGCTTTTGG | GAAGAGTTAT  | 22860 |

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| TGATTCTCTT GGCAGACCTA TTGATAATAA AGGGTCATTT TTGAACAATA GTTATAAAGA   | 22920 |
| GTTAATTTTT GAAAAAATTA ATCCAATTAA TAGAAGTATT TTTGAAGATC AAATATTAAC   | 22980 |
| GGGAGTTAAA GTTCTTGATG GGTTTTTGCC AGTTGCAAAA GGACAAAGAG TTGGTATTTT   | 23040 |
| TTCTGGTTCT GGTGTTGGTA AATCTACTTT GCTTGGCATG ATTGCAAAAA ATTCAAATGC   | 23100 |
| AGATGTAAAT GTTATTGCTT TTATTGGGGA AAGGGGTCGA GAGCTTAATG AGTTTATTGA   | 23160 |
| ACATGAGCTT GGTGAAGAGC GTTTAAAAAA AAGTGTTTTA GTTGTTTCAA CTTCTGATGA   | 23220 |
| ATCTCCCAT TCAAGGTATA AGGGAGCTTA TGTGCTACC ATGATAGCAG AATACTTTAG     | 23280 |
| GGAGCAAGGT AAAGATGTGG CTTTGCTTTT TGATTCTATT ACTAGGTTTG CAAATGCTAA   | 23340 |
| AAGAGAGATG TCTCTTTCTT TAGGAGAGCC TCCGGTAGCT AAAGGTTATC CGCCTTCTGT   | 23400 |
| TTTTGTGAA ATTCCAATTT TGCTTGAGAG ATCGGGCTTT AATGGTAATG GGGGAAGTGT    | 23460 |
| TACTGGGTTT TATACTGTTC TTGTTGAGGG GGATGATTTT ACAGAGCCTG TAGCCGATAA   | 23520 |
| TATTAAAGCT GTTTTGGATG GTCATATTAT TTTAGACAGA GATTGTGTTG ACAGGGGAAT   | 23580 |
| ATATCCTTCA ATAAATGTTT TAAGTTCAAC TTCAAGATCT ATTCATAGAA TAATGAGCCT   | 23640 |
| AGAAAAACAA AAATTAATAA TGAAAGCTAG AAATTTATTG TCTATTTATA AAGATTATGA   | 23700 |
| AGATCTTATT AGAACAGGAA TTTATCTCAA AGGATCCAAT AAGGATGTTG ATTTTGCAAT   | 23760 |
| TTCTAAGTAT CCTAAGATTA TTAATTTTAT TTCTCAAGGA ATAAACGAAA CATTTGATTT   | 23820 |
| TGAAAATTTA GAAGATGAAA TAAAGGAAAT ATTATCTTGA ATGATTTAAA CTTTAGAAAA   | 23880 |
| CAAAGCTTA ATAGAATATT GACGATTAGA ACCTACTTTC GAAAGCTAAG CGAGAGAGAT    | 23940 |
| TTAATGAATA TAAATAAGAA AATTTCAAAA ATAAATCAGT TTTCAGATGG AATTCCTAAT   | 24000 |
| ATTTTAAAAA ACTTGAATGG TTTTGATGAT CTTTACATAA GAGGTTATAT AGACTGTTTA   | 24060 |
| AATTATAAAA AAACCCAAAA TTTTAAAATT CTTGAAGAGC TTAGAAAGCA TTATAACAAA   | 24120 |
| TGTTATGATG TTTATGTAGA TAAATATAGG CAAGAAAAAA AGATTAAGAT ATTAATAAAA   | 24180 |
| AATTTAAATA ATTCTATAAT TAAAAATAGA GAAAAAAGG AAAGCTTGCT ACTAGATGAG    | 24240 |
| CATGTAAATT ATAAAGTTTG TCAAAATCTA AGGAATGAAA GTGAATAATT TTTTATCGTT   | 24300 |
| CTTTTTTAGG GCATTTTTTTT TGTTATTTTTT AATTGTTATT TTATTTTTCT TTGTATTATT | 24360 |
| CTTTATTGAT TTTATTGGAA TGTATAATAC TAAAAGATAT TTCCCGAAT TTGTAAGAAC    | 24420 |
| CAAGTTGTTA GGAGAACTT CTCTGGTCTT TGATCATAAT TCTAATATAA TTCTTGATGA    | 24480 |
| AGCTAGACTT GTGAAGGAAA GAGAAGCTAT TGATATTAAG AATCAGCAGA TTGAAAAGCT   | 24540 |
| TAAAGAAGAT CTAAAGTTAA AAGAAGACAG TTAAATAAG CTTGAATTTG AGCTTAAGCA    | 24600 |
| AAAGCAGAAA GATTTAGATT TAAAACAAAA AATAATAGAT GACATTATAA ATAAATATAA   | 24660 |



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| TGATGAGGAA GCAAATATTT TGCAAACAGC TGTATATTTA ATGAATATGC CACCAGAAGA | 24720 |
| TGCTGTTAAG CGGCTTGAAG ATTTAAATCC CGAGCTTGCA ATATCTTATA TGCGGAAAAT | 24780 |
| TGAAGAGCTT TCCAAAAAAG AAGGTCGTTT ATCAATTGTT CCTTATTGGT TATCTCTTAT | 24840 |
| GGATTCTAAA AAAGCTGCTA TATTGATTAG AAAAATGTCT GTTAGTTCAT TGGAGTAGTG | 24900 |
| TGTATATGAG TAATTTATTA AATTTAAGTA AAGCTTATGG AAATAAATTA AATCTCTTGA | 24960 |
| ATACAATTAA GGGGTAAAT TTAAATGTTT CTAAAATGGA ATCTAAAGGA AATGCGAGCT  | 25020 |
| CTTTTTTAAA TGTTATGTCT TCTGAATCTA AAAAATTAGC TAAAGCAAAA TTTATGATAT | 25080 |
| TTGATTTTTT AAATTTTTT AAAGACAATG GACTTATTGC TAAAAATTTA AAAAAATCAC  | 25140 |
| CTTTAAATAA ATCCTTTTTT TTTAAAAAAC TTGAAAATGA AGATTTTGTT TCCGATTTGA | 25200 |
| AATCCTTGAT TGCTAGAATG AATGTATTTT TAGATTTTGA AGGTTTAAAT AGCATTAAAG | 25260 |
| AAGATTTATC ATCCAATTTT GATTTTCTAG GTAAAGAAAA ATTTTTTGAA AAAATCGAAA | 25320 |
| AACTTTGTTT GGCTTTTAAT GATTTAAGTT CTTTTTGGG TTTTGATTTT TTAACGCTT   | 25380 |
| TGATTGATGA TTATTATAAT CAGATAAGCT TGAATGATAA AAAGGAAGAA AAGAATGTTA | 25440 |
| TTAACATTGA TGTAAAAAAC TTTAAAAAGA ATAATAGTGA TCATAATGAT TTTGTTTTTT | 25500 |
| CAAAGTTTAG CTAAATGCA ATTGATGGTC AAAATTTTGT TGATAGGTAT AAAGTTAAAG  | 25560 |
| AAATATCAAA CGATTCTTTA AAAGGCTTTG TTGAAGAATT TGCTAATTAT AATATAAAAA | 25620 |
| GCTCTAAAGA TGTTGGAGGC TTTGATTTTG TCAGCAGTTT AAAGCCGGAG TGGAATCTTA | 25680 |
| AGATTAATAA GAATATTGTG GATAAAGCTA AAGTTGTGTT AAAATCGAAT AATACAGGAG | 25740 |
| AGATTAAGTT GGTTTTAAAG CCCAAAGAGC TTGGTAGTAT ACGAATTAAT TTAAACCTTG | 25800 |
| ATTCAAATAA TAATTTATTG GGAAAGATCG TAGTGGATAA TCAAAATGTT AAAATGCTTT | 25860 |
| TTGACCAAAA TATGCATTCA TTAAATAAAA TGCTTGGTGA GAGTGGTTTT AATGCCAGCT | 25920 |
| TAAATCTTTT TCTTGCAGGT GAGAATTTAA ATTCTTTTAC TGGAAATTTT AAAGATGACT | 25980 |
| CTAAGGACCA AAATTTTCAT TTTGGTTATA ATAAATTTTT TAAAATTGAA GAAGAAGTTG | 26040 |
| AATTTTCTTA CGATGTAGAT AAAAATGTTA ATTTAATTGT TTAGAGGGTA GAGCTAAATG | 26100 |
| AATAAAATAA ACGGTGTTGA AAATGTTTTT AATTTAAATA TTAGCAATAA AGTTAAAAAA | 26160 |
| AAAACAGATT TTAATGTTGA CAATATATCT AATAAGGTTA ATCTTGGCAA GGATGATTTT | 26220 |
| TTAAAGTTAC TCATTACTCA ACTTAGGTAT CAAGACCCTA CAAATCCAAT GAAGGATAAA | 26280 |
| GAATTTATTG CGCAAATGGC GCAATTTTCG GCTCTTGAGC AAATGGCTAA TATGAGTAGA | 26340 |
| TCGTTTGAAA AACTTTCATC TTCTTTAGAA ATAAGAAAAG ATTTGGATTT ATTAGGTAAA | 26400 |

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| GTAATTAAAT TTCAGCATGG TGATGGGGAG ATTGTTGAGG GTCGCGTCAC AAACATTAAG  | 26460 |
| ACAGGCGCAA TACCTCAAGT TATGGTTAAT GGTAATTATT ATGTATATAA AAATATATTA  | 26520 |
| TCGGTAGGTT TGGAGGAATA ATTATATGAT GAGGTCTTTA TATTCTGGTG TTTCTGGGCT  | 26580 |
| TCAGAATCAT CAAACAAGAA TGGATGTTGT TGGTAACAAT ATCGCCAATG TAAATACAAT  | 26640 |
| TGGCTTTAAA AAGGGAAGAG TAAATTTTCA AGATATGATA TCGCAATCTA TTTCTGGAGC  | 26700 |
| TTCTCGCCCT ACTGATGCTC GTGGTGGGAC TAATCCCAAG CAAGTTGGAT TAGGCATGAA  | 26760 |
| TGTTGCCTCA ATTGACACTA TTCACACTCA AGGAGCTTTT CAAAGCACTC AAAAAGCATC  | 26820 |
| TGATCTTGGA GTTAGTGGCA ACGGATTTTT TATTTTAAAA GAAGGTAAAA ATTTGTTTTA  | 26880 |
| TACAAGAGCC GGTGCTTTTG ACGTGGACTC TGATCGACAT CTTGTAAATC CTGCAAATGG  | 26940 |
| AATGCGAATT CAAGGTTGGA TGGCAAGAGA TTTAGAAGGT GAAAAGGTTA TAAATACAGC  | 27000 |
| TTCTGATATT GAGGATCTGA TTATTCCGAT TGGAGATAAA GAGGGAGCAA AGTCTACGAA  | 27060 |
| AAATGTTACT TTTGCTTGTA ATCTTGATAA GAGATTGCCC TTAATTCAAG AAGGTGCGAA  | 27120 |
| TCCTGCAGAT ATTGCACGCG GAACTTGGGT TGTCAATAAA TCATTGTATG ACAGTTTTGG  | 27180 |
| AAATGTTAGT GTTCTTGAGC TTAGAGTTGT AAAAGATTTA AATACGCCTA ATTTATGGAA  | 27240 |
| TGCAACAGTA TTAATAAATG GTGAGCAAAA TTCAAATTTT AACTTTGGGT TTGACAATGA  | 27300 |
| AGGAGCATTG GCGTCTTTAA ATGGTCAACC AGGGCAAAAA GGAGATATTC TTCAAATTCC  | 27360 |
| TATAACATTT AATGTTTTGG GTGCAAATGT AGGTGAAGTT GGTGAGCAGC AACTGTAAAA  | 27420 |
| TTTGAAATTG GGAACAGTTG GAAGTTACAC TGATTCAATT ACTCAGTTTG CTGATTCTAG  | 27480 |
| TAGCACAAAG GCTATTATTC AAGATGGATA TGGCATGGGA TATATGGAAA ATTATGAAAT  | 27540 |
| TGATCAAAAT GGTGTTATAG TTGGCATTTA TTCAAATGGC ATAAGACGAG ATCTTGCGAA  | 27600 |
| GATTGCTCTT GCTTCTTTTA TGAATCCCGG AGGACTTGCA AAATCAGGCG AACTAATTT   | 27660 |
| TGTAGAAACA AGCAATTCAG GTCAAGTTAG AATAGGCGAA ACTGGACTTG CTGGACTTGG  | 27720 |
| TGATATTAGA TCTGGTGTTT TAGAAATGGC CAATGTTGAT CTTGCAGAGC AATTTACAGA  | 27780 |
| TATGATAGTG ACCCAAAGAG GATTTTCAGGC AAATGCCAAA ACCATTACCA CTTCTGATCA | 27840 |
| ATTATTACAA GAACTTGTA GATTGAAAAA TTAATCTAAG ATTGTTTTTT TAGTATATGA   | 27900 |
| TTTTTGTAAC TAAGCTTAAT GGTGATGGAT ATTATTTAAA TCCTTATCAT ATTGAAAGTA  | 27960 |
| TTGAGGCTAA TCCTGATACT ACAATTCTTC TTATGAATGG TAAGAAGTTA ATTGTTAAAG  | 28020 |
| AAAAAGTTGA AGAGGTGGTC AATAGGATTA AGTTGTATAG GAAAGAAGTT GCTTCTTTAG  | 28080 |
| AAAAAATTTT AGGAGAAGGA AATGGGGGCG TTGAATTATG AATTTAGCTA GTATAATTGG  | 28140 |
| GTGGGGAGTT GGATTTGGAG CTATTTTAAT TTCTATGGCA TTTACTCCTA CAGGACTTGG  | 28200 |

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| TGTTTTTTGG GATTTAAGCT CTGTTTTTAT TACTGTTGTT GGATCTTTTT CTGCTCTTAT  | 28260 |
| GGCTTCTTCA GAAGTTGTTG CTGTAAAAAA AATTCCAACG TATTTGGGAT TTTTCTTTAG  | 28320 |
| AAGAAATTCA TATGCTAAGG TTTCTATTAT AAAAATATTA GTAGAGCTTT CTGAAAAGGC  | 28380 |
| TAGAAAAGAA GGTCTTTTAT CTCTTGATGA TGAGCTTGAA CAAATTAATG ATCCATTTTT  | 28440 |
| TAAGTCAGGA ATGAGGCTTG TTGTTGATGG TGCAGATCCT GAGGTAATTA GAACTATGCT  | 28500 |
| TTATTTAGAG CTTGATCAAA TGCAAGAAAG GCATAAGGTT GGTTCAGATC TTTTAAAAAC  | 28560 |
| TTGGGCAAAG CTTGCTCCAG CTTTGTGTAT GACGGGTACT CTTATTGGAC TTGTAGCTCT  | 28620 |
| TCTTGGAAT CTAGAGGATA AATCTGCGCT TGGTCTTCT ATGGCTGTTG CTCTTATTAC    | 28680 |
| AACTCTTTAT GGAACATAA TGGCAAATTT AATGTTTACT CCTGTTCAAC TTAAGTTGGA   | 28740 |
| AAAAATTGAT ACTGAAGAGG CTGCAGTAAA GACAATGATA ATTGAGGGTG TTTTATCAAT  | 28800 |
| TCAGTCTGGA GATAATCCTA GAATTTTAGA GCAAAAATTA ATGACGTTTT TAACCCCCAA  | 28860 |
| AGATCGAAGT CAGCTTAATA GTAGCATTGG TGGTGAATAA TGGCTTTGCG AATTAAGAAA  | 28920 |
| CCTTCAAAAT GTGATGAAGG ATCTCCAGAT TATATGTTGA CTTATGGAGA CATGGTTACT  | 28980 |
| TTGCTGCTTG TGTTTTTTGT TACAATGTTT TCATTAAATG ATATTATTTT TCAAGAAAAT  | 29040 |
| GTGATAAGAA TAATGTCTGC TTCTTTACG GGTGCTGGAT TTTTCAAGGG CGGTAAAACT   | 29100 |
| TTAGATTTTA GTAAATTATC TTATTTGAGT AATAGCTTTA TGTCTTTGCC TTCTACTGTG  | 29160 |
| CGCAATAAAC AAGCATCTCA GACTGCTAAA AATAAATCCA TGATTGAATT TATTGAGAAG  | 29220 |
| ATTCAGTCTA AAAATATTGT AGTTAGGCAA GAAGAAAGAG GTATTGTAAT ATCTCTTGCA  | 29280 |
| GCAGATGCAT TTTTGTATC TGCTAGTGCA GATGTTAAGC TTGAAGAGAA TAGAGATTCT   | 29340 |
| ATTCAAAAA TAGCATCTTT TATTGGCTTT TTAAGTCCTA GAGGCTATAA TTTTAAAAATA  | 29400 |
| GAAGGGCATA CAGATAATAT TGATACTGAT GTAAATGGAC CTTGGAAAAG CAATTGGGAA  | 29460 |
| CTTTCGGCTG CTAGATCTGT TAATATGCTG GAACATATTT TGAACATTT AGATCAATCT   | 29520 |
| GATGTTAAAA GAATTGAAAA TAATTTTGAA GTATCTGGTT TTGGTGGAAG TAGGCCTATT  | 29580 |
| GCAACAGACG ATACCCCTGA GGGTAGGGCT TATAATAGAA GAATTGATAT ATTAATTACT  | 29640 |
| ACAGATGCAT CTTTAAGTTT CCCTAAGGAA ATTAAGCAGT AAGTAATTCT TTTTAACTTT  | 29700 |
| AAAAAAGAAA TTAATGGGAG GAATTTTATT ATGCCTAATA AAGACGATGA CAATTTAGAT  | 29760 |
| ATGGGGGATT CCAATGTTAG TAGAAAAGGC GGTTTATTGC CTGATATTAT AATAAAAAATT | 29820 |
| TTACAAATAC TTGCAATAGG AATATTTACT GTTGCAATAA TGATAATTGT TTCTTATTTT  | 29880 |
| GTGTCTAAAA TGGTGGTAAG CCAAAGTGGA GCTCCTAGTG ATTTTCCAGT TTTTCTAAT   | 29940 |

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| GAATACTTAG | GAAAGCCACC | TATGCTTATA | TGGTATGAAA | GTATAGATGA | GATTAGAGGT | 30000 |
| AACACCTTAG | ATGTTCTCC  | AAAACTTTT  | GTTGTAAAGC | TTGCTTTGGG | GTATGCAGAA | 30060 |
| AATAATGTTA | ATATTCTCAA | TGAGCTTGGA | AGACAGAAAG | TGCGCTTAAA | AGACATTATT | 30120 |
| AGAGAATATT | TTAGTCAAAG | AACTGGTCAA | GAAATAAAGA | ATGAAAGTCA | AATAAAAGCA | 30180 |
| GAAATTAAGG | CAAGAATTAA | TAGCATTCTT | AGAAATGGAG | AAATAAAAGA | AATAGCATTA | 30240 |
| ACCCAAATTG | ATATTTTTGA | TATGTAATAA | ATTTAAAAGA | ATTTTAAATT | TAAAGGAATT | 30300 |
| TTAAATGGCA | AACAATCCAG | GAGCTTTATC | TCAAGATGAT | ATAGATAGTC | TTTTAGAGTC | 30360 |
| TATCAACTCG | TCTGAAAGTT | TATCCTTAGA | CGAATCCCTT | TCTAATGTTA | TATCTAGCCC | 30420 |
| TACAGGCAAA | AAGCAAAAAG | TTAAGGTTTA | TGACTTTAAA | AGGCCAGATA | AATTTTCAAA | 30480 |
| AGAGCAGGTT | AGAACAGTTT | CAAGTTTTC  | CGAGGCATTT | GCCAGATATA | CTACAACTTC | 30540 |
| ACTTTCTGCT | CTTTTAAGAA | AAATGGTTCA | TGTTACGTA  | GCCTCAGTTG | ATCAATTAAC | 30600 |
| CTATGAAGAG | TTTATTAGGT | CAATACCCAA | CCCTACAAC  | TTAGCAATAA | TAAATATGGA | 30660 |
| CCCTCTTAAA | GGATCTGCTA | TTTTTGAAGT | TGATCCAACA | ATAGCATTTG | CTATTGTAGA | 30720 |
| TAGGCTTTTT | GGGGGTGATG | GAGATACGAT | TAAAGATAAA | AGTAGAGATT | TAACAGAAAT | 30780 |
| TGAGCAGTCT | GTTATGGAAA | GTGTTATTAT | TCGTATACTT | GCTAATATGA | GAGAGGCTTG | 30840 |
| GTCTCAAGTT | GTTGATTTAA | GGCCAAGATT | TGGTCATATT | GAGGTCAATC | CACAGTTTGC | 30900 |
| TCAAATAGTT | CCCCCTACAG | AAATGATTAT | TTTAGTAACT | CTTGAGGTTA | AAATAGGAAA | 30960 |
| AGTAGAAGGG | CTTATGAATT | TTTGTTTGCC | TTATATTACC | ATAGAGCCTA | TTGTTTCAAA | 31020 |
| ATTATCAACA | AGATATTGGC | ATTCTTTGAT | TGGGGTTGGA | ACTACTAGCG | AGAATCTTGA | 31080 |
| TGCTTTGCGT | GAAAAGTTGG | AAAATACAGC | GATGCCTTTG | GTAGCAGAAA | TAGGGGAAGT | 31140 |
| TAAACTTAAA | GTAAGAGAAA | TTTTATCGCT | TGACAAAGGT | GATGTTTTAA | ATCTTGAATC | 31200 |
| TTCTCTAATA | AATAAAGATT | TAACTTTGAA | AGTTGGTACC | AAAGAAAAGT | TTAAATGCAG | 31260 |
| AATGGGTTTA | ATGGGAAATA | AAGTTTCAGT | GCAAATTACA | GAAAAAATTG | GAGATATAAA | 31320 |
| AGGTTTTGAT | TTATTAAAAG | AGCTTACAGA | AGAGGTTGAA | TGATAGTTGT | TTTATTTATT | 31380 |
| AAAACTTAAA | TTATTAAGAG | GTTGAATTAT | GAGTGTAGAT | GAAAAAAGTG | ATAATGGAGA | 31440 |
| AAAGCCGGAA | ATAAAGGGGG | TTAAGCTTCC | CGATTTAATT | GATACTTTAC | CAGAGGGGGT | 31500 |
| TGATCCTAGT | AATTTTGGGC | TTTTAATGGA | TGTTTCTATG | CAGCTTACTG | TAGAGCTTGG | 31560 |
| AAGAACAGAG | CGCAAAATAA | AAGACATACT | TGGCATGTCT | GAAGGGACTA | TTATTACTCT | 31620 |
| TGACAAACTT | GCCGGTGAGC | CTGTGGATAT | TTTAGTAAAC | GGTAAAATAG | TTGCCAAGGG | 31680 |
| AGAAGTAGTT | GTAATTGATG | AAAATTTTGG | AGTTAGAATT | ACTGAGATAA | TTAAACTTAA | 31740 |

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| AAATGAATAA TAAATTTTTA TTTTATCGTT TTTTAATTTT TTTACATATG             | 31800 |
| CTAATTCACA AGAGCAGGTA AATTCAGCAT CTACCGATTT AGAAAATGAA TCTAGCTTGC  | 31860 |
| CAATCTTTGA AGAGGATAAG GCAAATTTTG TTAACAATGA TAGTACTCAG CCAGTTTCTA  | 31920 |
| TTTTCAATAT TTCGGATTG CTTAAGATAG TTTTATTTTT ACTTATTGCT TTTTTTATCT   | 31980 |
| TTTTCTTATT AAAGAAGTTA ATTTTTTATT CAAAAAAG CAAATATGAA CAAAATTCTA    | 32040 |
| ATTTAATTAA GGAGCTTGTT TTTTACGAGA TAGATGTTAA AACTCAATA AGAATCATAA   | 32100 |
| ACATATTAGA CAATGTTTAT ATATTTTATG TTTCTAGTAA TTCTTTTACT TTACTCAAAG  | 32160 |
| AGATTAAGTC GGAAGAAGAG CTGGAAGATT TAAACTTAG GCTTAGCAA ATTAATGATT    | 32220 |
| CTGCCAAGAA AGATTCTTTT CAGTCAATCT TTAAGAAAAT GTTGCTCAA AAAGAAGAGA   | 32280 |
| TTCCTTCTTC TGGAATGAT TATGTTAAAC TTGAGGAGAA AATTGAGGCC TCACTTAAGG   | 32340 |
| ATAACAAGA TAGATTAAAA AAATTTTAGA GGGTTTATTT TGAGAAAGTG TTTTAATTTT   | 32400 |
| TTTTTATTTT TTAGTGTAAC AAGTTTATCT TTTGCTCAA CAAATCTTT GCAGACTACT    | 32460 |
| AATGGTCTTA ATTTCCCGTT TTAAATTTT GACAGTATTG GTGGTTCAGA GATAGCTTTT   | 32520 |
| TCTTTCAGC TTTTGATTCT ATTAACCATT ATTACCCTTT CTCCAGCTTT TTTAGTTTTA   | 32580 |
| ATGACTTCGT TTTTGCGAAT ATCTATAGTT TTGGATTTTA TTAGGCGTGC TTTATCTCTT  | 32640 |
| CAACAATCTC CTCCTACTCA GATAGTAATG GGATTGGCTT TATTTTAAAC CATTTTACT   | 32700 |
| ATGTGGCCAA CTTTAAATTC TATATATGAA CAAGCTTATT TGCCCCTTAA AGAGTCAAAA  | 32760 |
| ATAAATTTTA ATGAATTTTA TAACAAAGGA ATTGCTCCTC TTAGAATTTT TATGTATAAG  | 32820 |
| CAGATGTCTG ATGGGCGTCA TGAAGAGATT AGATTATTTA TGAGTATGAG TAATTATGAT  | 32880 |
| CGACCAAAAA ATTTTAGCGA AGTGCCAACG CATGTTTTAA TTGCAGCCTT TATTTTACAT  | 32940 |
| GAGCTTAAAG TGGCTTTCAA GATGGGAATT TTAATATTTT TGCCTTTTAT AGTTTATAGT  | 33000 |
| ATTATTGTTG CTTCTGTTTT AATGGCTATG GGTATGATAA TGTTGCCCC TGTGATGATA   | 33060 |
| TCTTTCCTT TTAAGCTTAT TCTTTTTGTA ATGGTAGATG GTTGGACTTT AATTACTAGT   | 33120 |
| GGTCTTATTA AAAGTTTTAT GTAAGGTTAT ATATGACTGC AGGACACATT CTTTATTTAA  | 33180 |
| TTAGAATTTT TATTGAAAAC ATTATTATTT TATCAGCCCC AATGTTGATT ATAGCTCTTA  | 33240 |
| TAGTTGGTCT TTTGATTTCA ATTTTCAAG CCATTACTTC AATTCAAGAT CAACTTTGA    | 33300 |
| GTTTTATTCC AAAGATTATT GTTATACTTT TAGTTATTGT GATTTTGGT CCTTGGATTT   | 33360 |
| TGAATAAGCT TATGCAGTTT ACCTATATGA TTTTATAGTCA ATTGCAAAAT GTTTAATTTA | 33420 |
| TGACTAATTG TACTATTGGG ATGAAATTTT GAATTTAAAT TTTTGGTTT TAAAATCTTT   | 33480 |

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| TACAATTTTA | CCTGTGTTGG | TTAGAATTTT | TATGTTTTTA  | AAATTTTCTC | CATTTTTTTTC | 33540 |
| AACAATAAAA | ATTGGATATT | TTAATTTTTT | CTTTTCTTTG  | ATTCTCTCCG | TAATTGTTGT  | 33600 |
| TGAAAAGATT | AAAATTATTT | ATCCTTTAGA | CAATATGCTT  | TCTTTTGCGT | TAATTTTATT  | 33660 |
| AGGAGAAGCT | ATTTTAGGTC | TTATTCAGGC | ATTTTTTGTT  | AATATAATTT | TTAATGTTTT  | 33720 |
| TCATTTGGTT | GGATTTTTCT | TTTCTAATCA | AATTGGGCTT  | GCTTATGCAA | ATATTTTTGA  | 33780 |
| TGTTTTTTCA | GAAGAAGATA | GCATGATTAT | TTCACAAATT  | TTTGCTTATT | TGTTTTTGCT  | 33840 |
| TTTGTTCTTA | TCAAGCGATT | TTTTACTTCG | TTTTTTTTGTG | ATTGGCATA  | ATGATTCTGT  | 33900 |
| TTTGAACATT | AGGGTTGAAC | ATTTGGTCAA | TATGAGAAAT  | TCAGGATTG  | TCAAGCTTTT  | 33960 |
| GCTTATGTCT | TTTGGATTTT | TTTTTGAAAA | AGCTTTATTA  | ATTTCGTTTC | CAATATTGTC  | 34020 |
| TTTGCTTTTA | CTTTTTTATC | TAGTATTGGG | AATACTTTCA  | AAGTCATCGC | CTCAAATTA   | 34080 |
| TTTATTAATA | ATTAGCTTTT | CAACCTCGCT | ATTTTTAGGG  | TTGTTAATTT | TATATATTGG  | 34140 |
| ATTTCCAAGC | TTAGCAATAT | CTTCAAAAAG | AGTGATTGAA  | CTTCACTAG  | ATTCTCTTGC  | 34200 |
| TAGTTTTTTA | AAATTGTTTT | CTAGAGTTTT | AAAATAATGA  | TAAAAGATGA | ATTTTTGATT  | 34260 |
| AAAAGTTGGT | ATATTCCCCT | TGATTTTTTT | TCCGCAGATG  | ATGAGGGAAG | AACCGAATTA  | 34320 |
| CCTACTGACC | AGAAAAAGCA | AAAAGCAAGA | GAAGAAGGCC  | GGGTATTAAA | GTCTACTGAA  | 34380 |
| ATTAATACTG | CCGTTAGTCT | TTTGTTGTTA | TTTGCATTGT  | TTTTTTTCAT | GCTTTCTTAT  | 34440 |
| TTTGCTTTAG | ATTTAATAGC | TGTTTTTAAA | GAGCAGGCCA  | TCAAGCTTCC | TGAAGTTATG  | 34500 |
| CGTATGAGTG | TTTATACTAT | GGGTTTTGCA | TATATTAGAT  | CTATCATGGG | GTATGTCGTT  | 34560 |
| TTGTTTTTTT | TCGCATCTTT | AGCTGTTAAT | TTTTTTTGTTA | ATATTATTCA | AGTAGGCTTT  | 34620 |
| TTTATTACTT | TTAAATCTTT | GGAGCCAAGG | TGGGATAAAA  | TTAGTTTTAA | TTTTTCCAGA  | 34680 |
| TGGGCAAAAA | ATTCTTTTTT | TTCAGCAGGG | GCTTTTTTCA  | ATTTGTTTAA | AAGTTTGTTA  | 34740 |
| AAAGTTGTTA | TAATATGCTT | GATATATTAT | TTTATTATAG  | AAAACAATAT | AGGCAAAATT  | 34800 |
| TCTAAGCTTT | CGGAGTATAC | ACTTCAATCT | GGAATTTCTA  | TTGTGTTAGT | GATTGCCTAT  | 34860 |
| AAGATATGTT | TTTTTTCAGT | AATGTTTTTG | GCAATTGTAG  | GGGTGTTTGA | TTATTTGTTT  | 34920 |
| CAAAGATCTC | AGTACATTGA | GAGTTTGAAA | ATGACAAAAG  | AAGAGGTAAA | GCAGGAAAGA  | 34980 |
| AAGGAAATGG | AAGGTGATCC | TTTACTTCGA | TCTAGAATAA  | AAGAGAGAAT | GAGGGTTATT  | 35040 |
| TTAAGTACCA | ATTTAAGAGT | AGCTATTCCT | CAAGCAGATG  | TAGTAATTAC | AAATCCAGAA  | 35100 |
| CATTTTGCAG | TTGCTATTAA | ATGGGATAGC | GAAACAATGT  | TAGCTCCAAA | GGTGCTTGCA  | 35160 |
| AAAGGTCAAG | ATGAAATAGC | TCTCACAATT | AAAAAAATTG  | CAAGAGAAAA | TAATGTTCTT  | 35220 |
| TTAATGGAAA | ATAAGCTCCT | TGCAAGAGCT | CTTTATGCTA  | ATGTTAAGGT | TAATGAAGAG  | 35280 |

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| ATTCCAAGAG AATATTGGGA GATTGTTTCA AAAATTCTTG TGAGAGTATA TTCTATTACT  | 35340 |
| AAAAAGTTTA ATTAGAGGTT CTATTGTTGG ATGCTAGAAA AAATTCATA TTAGGGTATT   | 35400 |
| TGGGGCTTAA TAATAAGTCT GATTTAATAA TTTCGGTCGG TTTGATATTT GTTGTTGCCG  | 35460 |
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| TAAGTCTTTT AATTATTTTA ATTGTTCTTT ATTCTAAGAG ATCTCTAGAT TTCTCTGTTT  | 35580 |
| TTCCACATT ACTGCTTG TG ATGACTATTT TTGGACTCGT TCTTAATATT TCTTCTACTA  | 35640 |
| GGTTAATTTT AACCAAAGGT ATAAATTTTG ATGGGCAAAT GATAAGAACA TTTGGGACAT  | 35700 |
| TTGTTGTGGG TAGTTCCTGGA ATTCAAGGAC TTGTTATTGG ATTTATAATA TTTATAATAA | 35760 |
| TCATTGCTGT TCAATTTATT GTAATTACCA AGGGAGCAAC AAGGGTAGCT GAAGTTGCAG  | 35820 |
| CTCGGTTTGC TCTTGATGCA CTTCTGCGA AGCAAATGGC GATTGATTCT GCCTACAGTT   | 35880 |
| CTGGAAATTT GACAGAAGAA GAGGCTACAA GGCAAAAAAA CGATTTACAA TCAGAAGTCA  | 35940 |
| ATTTTATGG TGCAATGGAC GGAGCTTCTA AATTTGTATC AGGAAACGTT AAGGTTGGAT   | 36000 |
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| CTCAATTGCC ATCTCTTTTA ATTTCAACGT CTACAGGCTT GATTGTTACT AGGTCGATTT  | 36180 |
| CAAAAAATAG TTTTGGCGGC GAGATTTT TG ATCAATTCAC AAATCATTTA GGCATTTATT | 36240 |
| GGATTGTTTC CGGGTTTTTG CTTTTTTTAG CTTTTCTTCC GGGATTTCCA ACCCTAATTC  | 36300 |
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| TTCCAATAGT TGATGATACA AAACTTCTG AGCTGCTTGA TCGTATTGTT AAGATAAGGC   | 36540 |
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| TTGTTAAAGA TCCTTCATTT GGACTTCCTT CTCTTTGGGT AAATGATGAT GGGCGAGAAA  | 36780 |
| CTGCTGAAAA ATTAGGATAT ACTGTTGTAG ATCCTCCTTC AATTATTGCT ACTCATATGA  | 36840 |
| CAGAACTTAT TAAAAGACAT TCTTATGAAA TTTTGA CTG TCAAGATGTT CAAAATACTC  | 36900 |
| TTGATGTTTT TAAAAAGAT TACGGAGCTA TTGTTGAAGA GGTCTTAAG AATTTTTCGG    | 36960 |
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| TAGTTACAAT TTTTGAAACA ATTGCAGATT TCACAAGTAT TACTAAGGAT ATATTTTCT   | 37080 |
| TGATTGAGAA ATGTAGGCAA TCGGTTGGAA GGCAAATAAC TAGTGGATAT TTAGATTAA   | 37140 |
| ATTCTGAGCT TAATGTAATA ACTTTAAACC CCAGTTTGA GCAAATGATA ATTGATTCTC   | 37200 |
| GTGTAGAATC CAATCATGAT CTTATAAGTT CAATTGATCC TAATTTAAAA ACTAAATTA   | 37260 |
| TTTATGAACT TTTCAAAATT GTAAACGAAG TTCAAGCAGA AGGTTTTTAT CCAGTTGTTC  | 37320 |
| TCTCAAGCGA ATCGTCAAGA CCTATAATAA AAGTGATAAC AAGTAGAGAG ATTCCAGATC  | 37380 |
| TTGTTGTTAT GTCTGTTTTA GAGGTTCCCC AAAATATTAA AGTTAATGTT CTAAACAG    | 37440 |
| TAGAGGTTGA AGAATAATAT ATGGTTCAAT ATTTTACAGA AAAAGGTCCA ACTTATAATG  | 37500 |
| AAGTCATAGA AATAATTAAAG AAAAAATATG GTAAGAATGC TAGGGTTATG ACTTATAAAA | 37560 |
| CCGTTCCCCA TGGGGGGATT TTAGGTTTAT TTAGCAAAGA TTGGGTTGAA GTTTCAGGTT  | 37620 |
| ATGTTAGATA TGACATTGGT AATCAACAAA TTAATGTTGA AGATGAAAAG CGAAAGATTC  | 37680 |
| TTCAAAGTAT TAAAAGAGAA GAAAATTCTT CAATTGAAGA TGTGCTTAAA GAAGTTAAGT  | 37740 |
| CTCTTAAAC AGAACTTGCT CATAAAAAAG AAAATATTAA TCATCCAACA ATTACAAAA    | 37800 |
| TTGAAGACAT TTTAAGAGAA AATGATTTTT CTGAAATTA TATTAAAGAC ATTAATGAGT   | 37860 |
| TTATTAAGAG AGAATTTAGT TTGTCAGATC TTGATGATTA TGAAAGGGTT AGAGAGGATG  | 37920 |
| TTGTTTTATA TATTGCAAAG ACAATTAAAT GTTCAGGATC TATTATTGAT AATCTTAAGA  | 37980 |
| AAAGGGTTTT TATTTTAGTT GGTCCAACAG GTGTTGGAAA AACTACCACA ATTGCAAAAC  | 38040 |
| TTGCAGCAAT TTATGGTATT AATGGAGAAT CTAAGAGTTT AAATATTAAA ATTATTACTA  | 38100 |
| TTGATAATTA TCGTATTGGA GCTAAAAAC AAATACAAAC TTATGGTGAT ATTATGGGTA   | 38160 |
| TTCCGGTTAG AGCAATTGAG TCTTTTAAAG ATTTAAAAGA TGAAATTACT GATTCAAAGG  | 38220 |
| ATTTGATCT TATACTTGTT GATACAATTG GTAAAAGTCC CAAAGATTC ATGAAGCTTG    | 38280 |
| CTGAGATGAA GGAGCTTCTT AATGCTTGTG GAAGGGATGC TGAATTCAT TTGGCTGTCA   | 38340 |
| GCTCTACCAC AAAACATCA GATGTCAAAG AAATATTTCA CCAATTTTCT CCTTTTAATT   | 38400 |
| ATAAACTGT GATTTTTACC AAAGTGGATG AAACCACTTG TGTGGAAAT TTGATAAGTT    | 38460 |
| TGATTTATGA AATGAAGAAG GTAGTTTCTT ATGTTACGGA TGGGCAAATT GTTCCTCATA  | 38520 |
| ATATCAGCGT TGCAGAACCA CTTACTTTTA TTAGAAGAAT AAATGGCTAC AGAATAAGCG  | 38580 |
| ATGATGCAGA GTTTATTAAG AAGATAAAAA GTAAATCTTA TTATTAAGGA AAGTTATAAT  | 38640 |
| GGAAGATCAA GCTCAAAGTT TAAGAGATAT GATGAGATTA AATGGTAAAT TTAATTTTC   | 38700 |
| AGTTGATGAG AAAGTTCAAA ACAGCAAAAC AAGATTTATT GCTGTTAGTA GTGGCAAAGG  | 38760 |
| CGGTGTTGGT AAAAGTAATA TTGCAATTGG ACTTGCTCTT AAATATTCTG AGCTTGGTAA  | 38820 |



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| AAAGGTGTTA ATACTTGATG CTGATATTGG AATGGCTAAT GTTAATATTT TGCTTGGAGT  | 38880 |
| TATTCCCAAG TATAGTATAT ATCATATGAT TGCTCAAAGT CGTGACATCA GAGAAGTAAT  | 38940 |
| AACAAAGACC GAGTACAATA TTGATCTTTT GGCCGGTGCT TCTGGTACAA TGGAGCTTTT  | 39000 |
| AGATCTCTCT GATGTTGATG TTAATAAATT TATAAAAGAA TTATTAAAAA TATATGAATA  | 39060 |
| TGATATAGTT GTAATAGATA CTAGTGCCGG AATTTCAAGA CAAGTTATTT CATTTTTGCT  | 39120 |
| TTCTAGTGAC GATGTTGTTA TTGTTACTAC TCCAGAACCC ACTTCGATTA CTGATGCTTA  | 39180 |
| TGGAATAATT AAGGTTTTGT CTTATAAGAT GGAGAATTTG AAAAATTTAA GGCTTATTGT  | 39240 |
| TAATAGAGTA GCTAATGTTA GCGAGGCCAA GGGAGTTGCT AAAAAGGTTA TAGATATTTT  | 39300 |
| AGGGCAATTT TTAAATTTAA ATATTGATTA TTTGGGTCAT ATTTATGAGG ATCAAAATAT  | 39360 |
| TAGAAGTTCT GTTTTTAAGC AAAAACCTTT TGTTTTGGTA AATCCAAATA GCAAAGCTAG  | 39420 |
| CTATTGTCTT GATTCTATTG TTGCCACCCT TGAGGAGGTT TCTCTAGATA ATAGAAAAAG  | 39480 |
| AAGAGGGGTT ATAGGTTTTA TATTAAGATT TTTTGGTG TGGAATAAGACA TTATGTTTAT  | 39540 |
| AAGCAGGGAA TTGAAGTATA TTTTATTAAC TAGTGTGTCA GCACTGTTTA TTTCAGCAGT  | 39600 |
| TTTAGGATTG TTTTGTGGTT TATCATTTTT TACAATCTTA GTGAGATCTT TATTGCAGTT  | 39660 |
| TGTATTTTTT TTTGTTATTG GACTTTTAAT TGAATATATC TTAAAGAAAT ATTTGTGCGAA | 39720 |
| TCTTTTTTCA ACGGAATTGT CTGGCAATAT GGAAAAATAA CCTCAAGATG ATAAGAAGAG  | 39780 |
| TGATAAAGAT TTAAAGAGA ATCTTGATTT TCAAAATAAA AATTCTCTTT ATGAGAATTC   | 39840 |
| TCAAAATATC AGTAGTAGTG GTGATTTTAT AGAAGAGGTT AAAAAGTATA AATTTGAGAC  | 39900 |
| GGAAGACGTG AGTAGAGGGA GTGACAAAAA TAAAAAATG TCATTTATTG AAGATAATGA   | 39960 |
| TCCAAAAGTT GTTGCAGATG CTATTAAAAC TTTAATGAGC AAGAAGGAAT AAATATGGAT  | 40020 |
| GACAGGGCTA TAAATTTTTT TGAACTTTGT GATAAGATGC GATCTTACTT AGAAAGAGAA  | 40080 |
| AGTCATGTTG ATTTAATGGA AATAGAAGCA GATACTCTTG AAGAGGCCTT AAATGATGCT  | 40140 |
| TCTTTGGAGC TCTCGGTACC TTATAAAGAA TTAGACTATG AGATTTTGTT AAAAGGTAGT  | 40200 |
| AATGGTATAT TGGGATATGG GAAGAAAAA TGGAAAATAG TTGCCTATAG GAATTCTTCT   | 40260 |
| AGCAAGCCTA AAGTGTCTCT TGATTCAAAA AATGATTGAG GTGAAAAAGA AGTTATTTCA  | 40320 |
| TCAGATGGTG AATTTTTTAT CAGGAAATCT TCAAAGGTG TATTTCTAAA GGTTATCTCA   | 40380 |
| CCAAAAGGAC AAGGAATTC TATTAAGTAT CAAGATGTTA TTTTAAATT AGAATTGCAT    | 40440 |
| AGCAATATTG AAAATTTCAA TAAAGACATT GTGAAAGGTA TAGTTGAGAA TGCTAGTGGA  | 40500 |
| TATTATGAAA AAATTGCTGA TTTTGAATCT GATCCTTCTG AAAATGTTAC AATGATGGTT  | 40560 |

CAAAATATCAG AAAATTCAAT GTCGGTTACC ATTGAATTTA CTGCGCCTGG AATTAATGGA 40620  
GCTGAAATTT TTGCACAAGA TATTTTCAAT ATTCTTAGAA AATATGGAGT AATAGATATT 40680  
GCAATACTTA AGGATAAAGT AGCAAAAATTT GTGGATTATC CTGTTTATGG CGAGCCTGTT 40740  
GAACTTGCAA GGGGTCTAGA GCCAGTAAAG GGTAAGGATT CTTATATTGA TTTTATTGTT 40800  
GATGAAAATA ATAGGTTTGG TGAGTATGAG GTTTCAAGCA TAGGATTTAG AAATGTAATT 40860  
GAAGGCGAGG AGTTGGCCAG AATTATTCCT TTTGGCAAAG GTGTAGATGG TTATACCGTT 40920  
TTTGGTAAAG TGTAAAATC AGAGAGTGGG CAGGATATTG ATTTTATTTT GGGCGAGAAT 40980  
ACTTTTAGAG ATGGTTATAA AATTCGGGCA AAATGCAATG GGTATATGTC TGTTTCAGAT 41040  
GGTGTAATAT CTGTTCATAA TATTTATTTA GTCAAAGGTG ATGTTGGACC TGCTACTGGA 41100  
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GATTTTTAAG AGATTGTCAT ACTGATTCTG AGGTTGGCAA TGTATGTGTA GTTAATAAAG 42120  
TAGGGGATAA TTATTTGCTT TCGTTTCCAG TTAAAAAATA TAAAAATGAA GAGAAGGTGA 42180  
TGCTTAGTTT ATATCCTGAT AAATTGAAG ATCCTAAAAAT TGGTAAAAAT GTTAATATTA 42240  
AGAGATAAAA TGTTTTAGGG TTTTATATG TTTATTGTTT TTTATCTTAT TTAAATTATA 42300  
TTTATTTTTA TATATTTTCA TGTGTATATT AATTTGAAAA TAAAATCTAA TAGCATACTT 42360

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| AGAAAGTTTA AAAGTGAGGT AGATAAAACA ATTATTGAAA TTAATCAGGC TACGGATAGA  | 42420 |
| AATATAAATA TTATTGAAAT AAAAATTGAA AGTTTAAATA GAATCATCAA AGAGGTTGAT  | 42480 |
| GAGAGAAATG AAATTCCTGA CCAGAGGTTG TTAGGGTTTA ATAATAGCTC TATTCCTGGC  | 42540 |
| AATAGCCCTT CTAGTTTTGG ATCGAAAAGT GATGGAATTT ATAAAAGTAA TTTGGATTAT  | 42600 |
| TCTATGCCTA CTATTGAAAA AAATATAATA AAAGAAAGTT ATAATGTTCG CAATCAGATT  | 42660 |
| ATTTTACTTC ATGAACAAGG TATGTCTTTT GAAGCTATTG CTAAAAAGTT TAAGTTAGAT  | 42720 |
| TTAGGTGAGG TTGAGTTGAT TATTTCAATA CATAGGGGAG GTGTTTCATGA AAAAATGGAT | 42780 |
| AGGTATTGAT CTTGGAACCA CAAATACTGT TGCATCGTAT TTTGATGTTA GTTCTAAGAT  | 42840 |
| AATATTAAAT GAAAGGGGTG AGCGAATAAC CCCTTCTATT GTTCTTTTCT CAGATAAGGA  | 42900 |
| TGTTCTTGTT GGAAGTGCCG CTAAAAATCA AATATTAGTT AATCCTCAAA AAACATTTTA  | 42960 |
| TAATTTTAAG ACCAATATAG GCTCTAATAA TTTTATAAAA GTAGATGGTG AATTTTATAA  | 43020 |
| AGCAGAATAT ATTTTCAGCAC ATTTGCTCGC TAGTGTTAAA AGGAACGCTG AAAAATTTTT | 43080 |
| AGATGAAGAG ATTGAAAATG CTGTAATAAC AGTCCCTGCC TATTTTCTG AGATTCAAAG   | 43140 |
| AAGATGTGTT GTTGAGGCTG CAAATTTTGC TGGTTTGAAT TGTAAGGCCA TACTTAATGA  | 43200 |
| ACCAACCGCA GCTGCTATTG CTTATGCCTT TGAAAGACAG ATTGATGGAA TTTTCTTAT   | 43260 |
| TTATGATCTT GGGGGTGGAA CTTTGTATGT AACTCTTATG GAAAAACAAG GCGACACCTA  | 43320 |
| TACTGTTCTT TCGGTCAAAG GGCAAAGTCG ACTTGGAGGT AATGACTTTA ATAAATCAT   | 43380 |
| TGAAAAGTAT GTTTTAGATA GTTTTAAAAA TAAATATCCT GATTTTAATC TAGAAGATAT  | 43440 |
| TTTTCTTCTA GAACAGTTAA GAGAGCGAAT TGAAGAGGGT AAAAAAATT TATCTGTTAT   | 43500 |
| GGAAGAGGTC GACATTACTT TGCTTTTTCT TGATGGCAAG CATTTGAATT ATAATCTTAA  | 43560 |
| AAGGGATGAA TTTAATTCAA TGATAAGTGA ATATATTGAC AAAACTATTC AGTTATCTAT  | 43620 |
| GGAATGTATT GCTGATTCTG GGGTTGATAT TAGTAGTGTT TCAAAAATCA TACTTCTGG   | 43680 |
| TGGTTCAACA AGGATCCCCT TGATTGAAAA AGTTTAAAG GAATCCTTTC CTTCTGCTAC   | 43740 |
| AATTTTAGAT GCTTTAAATC AAGATGAAGT TGTAGCTATT GGCGCAGGTA TTCATGCTTT  | 43800 |
| TAGTCTTCT AGAAATGATT CTGTTATTAA GTTTAAGGAT GTAACCTT ATTCTCTTG      | 43860 |
| ACTTGAGATA AAGGATAATG AATTTTTTAC TCTAATAAAG AGAAATACTG CTTTGCCAAT  | 43920 |
| TTCTAGAAGC AAATATTTA CGACTACTAA TGATTATCAA GATGAAATTG AGATTCACAT   | 43980 |
| ACTTCAAGGT GAATACAAAA AAGCCTCTT AAATTATTCT ATAGGTAGGT TTTCCTTTGG   | 44040 |
| CAATATTCAA AAAGCTTTAA AAGGAATTCC CAAATTGAG GTACTTTTTTA CTTTAAATGA  | 44100 |

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| AAGTGGTATT TTGAGTGTTA ATGCTAAAGA TTTAGAGACC AATTCTTCTA ATTTTATTGA  | 44160 |
| AATAAAAATT ACAAGTTCAT CTGATAATGT AGCAAAAGAA AGTCTTTCAA AACTTTTAC   | 44220 |
| AAGTATTATT GATTAAAAAC TCAAAGAAAC AAAGATATTT TTTAAAAGTA ATAAATTATT  | 44280 |
| TTTCCCAATA TATTATCAAT TTTTATAAAT CCGTAATCTC TTGAGTCTAA TGAGATCTGT  | 44340 |
| TTGTTTTCTC CTATAACTAA ATAGTGGTCT TCAGGAATTT TTTTAGTATT TTTTTTTAAA  | 44400 |
| ATATTTTCAT CTATTTTAAA GTTTAAATCA TGTATGCATA TTGTATTTTT TTCTATTTGT  | 44460 |
| TTAAATTTTT CTCCTGGAAT TGCAAAAATT TTTTAAATGG CAATTTTGTT TGTATGGGA   | 44520 |
| TCTTTAATAA GCACCATTTC ATTTTTTTGG GGGGTTTTCC ATAATAAAG GTATTTTTGG   | 44580 |
| TGCTTTTTTAA TCCTAAGTCC ATATGCAAAC TTGTGATTTA CAATCCAATT TTTTCAAAT  | 44640 |
| ATTGCTGGGG TCATTGATTC GCCTTTTACT ATGTAAAATG ATAAGAATAA CTTTATTAAG  | 44700 |
| GTTATTAAAA ATAAGCAAGC GGCTAAATC GACGCTAGTT CATATTTGTG AGCTTTAAAT   | 44760 |
| ATTCTCATAA CTTTTAAACG ATGCTTTCAT TCAAATGCAA TTTTCTATTG TATAATGAAA  | 44820 |
| TAGCATGTTA TGATTATACC AAAAAAAG CAAAGGGTAG AAAAACGTAA AAAAAATTTT    | 44880 |
| TTATTCAATA GCAAAAAGAG TGTTAATTTT GAATTAAGAAG ATTTTGCAAA TATTTCTAAT | 44940 |
| ATTGGTAAAA GAAGAAAAA AGTTTTTAAG ATTAAGAACT TCTTTAAAAA AAAATCAAT    | 45000 |
| TTTTTTAAAA AAGTTTCTTT ATTTTCTAT AAGCTTAAAA TACAAAATAT TAATCATTAT   | 45060 |
| GAATATAAAT ATTATTACAA GAGCTTGAGA GATAAAGTTT TTGATATCTT TAGTGTAAGA  | 45120 |
| TTCGATTATA AACTTGTTTT TAAGCTTAAT GCAATAATCT TTATTTTTAT ATTAACATTT  | 45180 |
| TATATTAACA TTTTTTCTTA TTATGGCTCG TATGTTTTTT TAAATAGGCT TTCTTTGCCC  | 45240 |
| AAAGATTATT TTATTGATAC ATTTTTATAT TATAGTGATC AAGATATAGC TCAAATTAGT  | 45300 |
| AGTTATTTAC CTGAATCCAA TGTTTCTGCA AATGTTCTCG GATTTAAAAA AAATTTTGTA  | 45360 |
| TTAAAGGTAT TTGATCATAA AATTAAGCCT GGAGAAACGC TTTCGCATGT TGCAGCTAGA  | 45420 |
| TATCAAATAA CCAGTGAAAC TTTAATTTCT TTTAATGAAA TTAAAGATGT AAGAAATATT  | 45480 |
| AAGCCAAAT CAGTTATTAA AGTTCCCAAT ATGAAAGGAA TTGTTTATAT TGTAAAAAA    | 45540 |
| AATGACTCTA TCTCATCTAT AGCTAGTGCT TATAATGTTT CCAAGGTTGA TATTTTAGAT  | 45600 |
| TCTAATAATC TTGATAATGA AGTTTTATTT TTAGGGCAAA AGTTGTTTAT TCCTGGGGGA  | 45660 |
| AGATTGCCCA AAGATTTTTT AAAAGAGGTA TTAGGGGAGA CTTTATTTA TCCTGTGCAG   | 45720 |
| GGTGTTATTA CTTCGGGGTA TGGCTATCGA CCAGATCCGT TTACAGGAGT TATTAGTTTT  | 45780 |
| CACAATGGAA TAGATATTGC AAATTTAGCT AATACGCCTA TTAAAGCCTC AAGAGAAGGT  | 45840 |
| GTTGTTGTAA CTGCAGGATT TAATGCGGGA GGGTATGGAA AATATATTGT CATTTCTCAC  | 45900 |

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| AGCAACGGAT TCCAAACTTT ATATGCACAT TTGAATTCTT TTGCCGTAA GGTGGAAAA    | 45960 |
| AAAGTTTCAA GGGGAGCGGT AATAGGTTAT ATGGGAAGCA CTGGCTATAG TACGGGCAAT  | 46020 |
| CATTTGCATT TTACCATTTT TAAAAATGGT AAAACTGAAA ATCCTATGAA ATATTTAAGA  | 46080 |
| TAATGTTTTT CATGTGTATT TGGATATGTT AATTTTTTTA AGTATTTGAG CTAGTTTTTT  | 46140 |
| TCCTTCTACT AGATCAATAA GTCTTCCTTC AATCATTGT TTAGCCTTTA AAGAGAATTT   | 46200 |
| TGATGGAGCA ATACAGAGTC CTTTTATTTT ATTTTCTTTT ATTTTGGAAA TGAAATCTTT  | 46260 |
| TAAGAATAAT TCACCAAAG TATCTGTTC AGTTCTTACA AAACGCACTA TTAAATTTTC    | 46320 |
| TTCCCACTGA TTGTTAGCTA AGTGAAAGTT TATGTCAATA AATTGTGTG TTACTTCATT   | 46380 |
| TATTTTAGAA TCTCTTATTT GAAATTTATT TAAATATAGT TTTAAAATAA TTTCATTGTC  | 46440 |
| TATTTTTTCA AAATTTTCTT TTGAACTGCG CAAATATATT CTTAGGGCTA TGTTTTCGTT  | 46500 |
| TAACCTTTTG CTAATTTCCA ATTTTCTTT AATATTTTGT TAATTTGGAT CAATCTCTTC   | 46560 |
| AACTTTGGTA AAAGCTTCTG TAGCTTTTTG ATAATTTTCA ACAGAGATTT GAAGTTCTCC  | 46620 |
| AAGATTATAA AATAATTCAA GGAAAGTTTT TTTAGGCAAG TCGGGTTTTA CTTTTATTAT  | 46680 |
| TTCTTTAATA TTTTGTCTA ATTTTCTAA TTCTTTATTT TTTGAATGAA TCTCAGATGT    | 46740 |
| AATCAATAAA GCCTCATAA TCATTCCATC TTTTGTGTTT ATTTTGTGG CAATCTCTAG    | 46800 |
| TGCTAGATGA TCTTGATTCA TTTTGTGATA AGATTTAGCA TATGCCAAAA GAGCTTCAAT  | 46860 |
| GTCGCCTTGT ATATTTTTTT TTATATTGTT AAATATTATA ACAGCTTGTC TGTAGCTTTC  | 46920 |
| TAGATTAAAT AAAGTTATTC CCAGGTGTTT TAGGACATCT TTATTATTTT TATTAAATTT  | 46980 |
| GTGGACTTTT TTAAGATAGT ATAGAGCTTC TTTATACATT TCGTTTTTTA AGAATGCTAC  | 47040 |
| ACCAAGATAA TAATTTGCAT CTTTCATCTGT TTTTTTAATC AGAAAAGCTT TTCTTAAATA | 47100 |
| TTCTAAGGCT TCTCTGTAA AATTCTTTT AAGATTATAA AATCCATAAC TTAAAAAAGC    | 47160 |
| TTTAAATGTG TTTATTTCTT GGTATTATTG GTTGCTTCTT ATTAATTGGC ATAATTTTTT  | 47220 |
| TGCATATTTT ATGCCATTTT CATGGTCTTT ATTTTATAG TAGTAATTAT TTAAAATTTT   | 47280 |
| AAGGGCACCT ATTTGTTTTG GATTTGTTTT TAATAGGGAA ATTGCTCTTT CGATTAATTT  | 47340 |
| TCGCGTTCTC TCATCATCTT TTTTGATTTT CCCTATATTT TTACCTATTG TAAGTTTTAA  | 47400 |
| TGCTATTTTA AAAAATAAAA AACTAAAAT AAATACTGTC AATGAAGAGA TTAATAAAA    | 47460 |
| TAGTGACAAC ACTCGTATTG CTCCTAAATT AAAAATATCC CATTAATTTG CATCATCATA  | 47520 |
| GTTACTTTTA ATAAAAGTTA TTTACTTAAA ATAAAAGTAA TTTGTAAGTT GAATATCACA  | 47580 |
| TTATTTATAT TATATTATAG TTATAATAAT AATGATAACT ATAATTAGTG CGTAAGTTTG  | 47640 |

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| GTTTCAATAA AATTAACAAA GCAAAGAGGT TATGATTTTT GAAAGGGTTT TTAGCGATAA  | 47700 |
| AATTATCTAA TAATGAGTAT TATCCGGTTT TAAATTTAGA TGATAGTTCT GTTAAGAGAA  | 47760 |
| TAATATTGGG CAAGGTTGCA GGTGATACCA GTATTAAGTT GAATTTATAT GTTAGTGAAT  | 47820 |
| ATGAAGATTT TTTAGATCCT TTTTTGGTTG GTTCTTTTTT CTTAGATAAT TTAAAAAAGG  | 47880 |
| AAAGCTTGAG TGTCAATGTT TATTTTAAAG TTGTGGATGA AATACTTTAT GTTTATGGTG  | 47940 |
| AATCTGATGG GATTCAAGAT AAATCGAAGT TTGATTTAAG CCTTGTAGAT TTTAATCAAA  | 48000 |
| ATTTAAAAGG ATCTAATAGG GGTAACCCCTT TGAATGATTT TAAAAGTGAC ATTGGCAGTG | 48060 |
| ATTTGTCTGT TGAAAATTTG GGTCTGAAT TTGATTTAAA TTTTGAAGAA AAAGATGATT   | 48120 |
| TTGTTAAAAA AGATGTTTCT GATGTAAGTA TGCCTACTAT TAATTCTTTA GATCTAAAAA  | 48180 |
| CCGAAGAAGA CCAAAAAATT GAGACAAATG TTTCAGATTT TGAAGATTTT GATGATAATT  | 48240 |
| ATGACGATAG TCTTGTTGAT TCTAAAAAGC TTAATTTAGA AAATAAAAAA GTTGAGTATA  | 48300 |
| TTGACGAGAA GTCTTTTAAAT CTTAATAATT TTGAGTTTCA AAAATTAGAA GAATCTTCTT | 48360 |
| TAGAAGAAGA AGATTTGCAT GATTTAAGCG TTGAAGACAT TATTGCAGAT ATTGATAAAG  | 48420 |
| AGTTAATAGA TACTTCAGAT GAAGATGTTG AACTAGATCT TAGAGAAGAT TTTGAGAATG  | 48480 |
| ATATGGTAAA AAACAATTTT AAATTAAATT CAAGTGAGGG AATGGTTCAT TCTCCTATGT  | 48540 |
| TATATTTGAG TCTTATTTCT CTTTTTCTTT TGATATTTTT TTCTTTGTTT TTAGTTTTTT  | 48600 |
| CAAAAATTTT AAAACCTAGA GATTTTGTTT CATATTACTT TGAATATGAT AAAAATAGAA  | 48660 |
| TTAAGAGATA TGAAAAAGAT CAATATGTTT AATAGAAGTT CTTGTGTATT ACAAATTTT   | 48720 |
| CTTTTTCTTT TTTTATTTTT AAGTTTAGTT TCTTGCTTTG CAAAAAAGA AATCTCAGGC   | 48780 |
| AATAATTTTA TTAAGGCGCA TTCAAAAGAG TTTGATTTAA ATAATTTAAA TTGGTTATGG  | 48840 |
| AATTTTGATT ATACAAAAA AAATTTTGAT AAGCATTTTA ACATAGATCC AAGTTCTTAC   | 48900 |
| ATATATGTTG CTTATTTATT TAAAAAATA GGATTTGAAG AGAAATTTGT AGAGTATATG   | 48960 |
| AAAAAGGCCA TAGCTAATGG AGATAGCATT GCATCCCAGT TTGCTGGGAT TAAGCTTATT  | 49020 |
| GAATATTTTA ACTCAGCAAA AGAGATTTTT GCATCTGAAT TGATTGGAGA GAAGCTTTAT  | 49080 |
| AAAAAATACG AAAATAATAA ATTTATTATA CTGGGGTACT TTAAAAGTCT TTATTGGCAA  | 49140 |
| AAGAAAAACG ATAAGGCACT TAGTCTTTTA AATAAGCTTG ATAAGATGAA ATTTTCTGAT  | 49200 |
| TATCAGGAAA ATGAAAATAT TTTATTAAAA GCAGTTCTTT ACCTTAATCT TTCTAATGTA  | 49260 |
| AGTGAGTCAA AAATTTATTT TAATGAGCTT TTTGAGAACT TACCTGCAAA TTATTTACAT  | 49320 |
| GTAAGAGCTT ATGATTATTT TATTATTGAA AATAAGTCTA GGTATTTTGG TGCAAATTTT  | 49380 |
| TTAAATCTTG TTAGATTTAA GTATGAAGTG GCAAATGGCA ATTTTAAATGG TGCAATAAAT | 49440 |

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| ATATTAAATA AAAATGGTTT AAATGATTAT TATGACAATA ACATTGTATT AAGTGATGTT | 49500 |
| TATAAGGCTT TTATTAGTTC TGGCAAAGTT TCAAATGCCT TAACATTTTT TAGTAAAATA | 49560 |
| AAGAGCAAAT ATAAAAATTA TTATTTAGGT ATTCTAAACC TTAGAGAGAA AAATAATTTA | 49620 |
| GGACTTCTTC TTTTAAAAGA ATATCTTGAA GGTTTAGATC TTAACAATGA GATTAACAGG | 49680 |
| CTTGATTGTC TTAATACTGC TTTTAGCAAT TTAATTTTTA CTAAGAGCGC AAGGGATTAT | 49740 |
| TTTGCCGAAA GTTTACCCAA GTTTTATACC GAGGGCGATA AAAAAATTC TACTTTTATT  | 49800 |
| AAGATTTTAG AAGAGTATAT TTTGGAATCA ATTCAGCTTG AAGACTATGG CAATCTTTAT | 49860 |
| AAGCTTTATT CTAATGCTCA AAAAGTTATT TCTAATTCTG TTTTGTCTAA GCTTGCTTTT | 49920 |
| ATTAATGCAA GGCTTATATA TCATAAATTA ATTAAACCTA ACGTAAGCGG AGAATACAAG | 49980 |
| AGTCTTTTGC ATTCTGCTGT TAATTATGAT AAATGGTCTT ATTCTTCATT TATGAGTAGG | 50040 |
| TACTTATTAG ATCAAAATAT TGATGAATTT TTTACAGGTG GGTCTGATAT TAAGTATGAG | 50100 |
| CAATCCGATT ATGAGATTTT TTTGGAAGGG TTTTAAAAAT TCAATCTTTG TAATTATGTT | 50160 |
| AGAGGGTTTA TTTCTGAGGA TTTTAGGAAT GGATATAAAT TTTCACCTGA TTTTATCGA  | 50220 |
| AAAGTATACG ATGAACTTTT AAAGAGTGAA AATTATTACG ATGCAACTCT TGTGATTAAT | 50280 |
| TATCTTGTA ATCAAGATGA ATCTGCTTTA ATGGAGAATG ACTATAAAAG ACTTTATCCT  | 50340 |
| TATTTGTATG GATCTTTGAT AGAATATTGG GCTAAAAGGA GAGGGCTTGA AGCTAGTGTT | 50400 |
| GTATTTTCTT TAATAAAAGC AGAGAGTAGC TTTGAAAAAA ATGCTGTCTC AAAACCGGGT | 50460 |
| GCTGTTGGCC TTATGCAGGT TATGCCATCA ACAGCAAATG ATATTTCTAA AGAACTTAAG | 50520 |
| TATTTTAACT ATGATTTAAA GATTCCAAAA GATAATATAA TAATTGGAAC ATATTATTTA | 50580 |
| AAAAAAGAA TATCTACAAC TGGCAGTCTT TATAAGGCTC TTGCGTCTTA TAATGGGGGT  | 50640 |
| ATTGGTAATG TTAGAAAGTG GGAGAAAAGT TATGGACATT TGTCAAAAGA GCTTTTTATT | 50700 |
| GAGGCAATTC CCTTTAGTCA AACTAGGAAT TATATTAAAA AAATATTAGT TTATTGGTA  | 50760 |
| TTTTATGATG CTTTGTATGA AAAGAAGGGA ATAGATTACG TAATAGTTAA AATTATGGGC | 50820 |
| GAATTCCCCA AAAATTAATA TTGGAGCATT TAATGACAAA TATTTTAAGT GCAATTATTT | 50880 |
| TGGGCATTAT TCAAGGCATT ACAGAGTTTT TACCAATATC TAGTTCGGGA CATTTATTGC | 50940 |
| TTTTTAGGCA TTTTATAAAT TTAAAGCTCT CAATAATATT TGATATTTAT TTACATCTTG | 51000 |
| CAACAGTTTT GGTGATTATT ATTTACTATC GTAAAAGGAT TTTGGAGCTT TTTTAACTT  | 51060 |
| TTATTAGATT TTCTTTAAGA AAACTGTTA AATCTGATTT AACAACTTA AAATTAATAT   | 51120 |
| TGCTAATATT GATAATAACC ATTGTTACCG GAGTTGTTGG GACTTTTATT TCAAAATACG | 51180 |

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| AGAGTATGTT | TACATTGTCT | TTCGTTTAA  | TTAATTTTAT  | TATAACAGGG | ATTTTAATCT  | 51240 |
| TGATGCTAGA | ATTTAATTTT | TTAAAAGTTG | ATTTTAAAGG  | TAATATTTTG | TTAGCAGGAA  | 51300 |
| TTTTTATGGG | GCTGATGCAA | GGCTTGGGTG | CGCTTCCAGG  | AATCTCTCGT | TCAGGAATTA  | 51360 |
| CGATCTTTTC | GGCATCGGTT | ATTGGATTTA | ATAGAAAAAG  | TGCATTTGAA | ATTTCAATTTT | 51420 |
| TATCTTTAAT | TCCAATAGTT | TTTGGAGCGA | TTTTATTAAA  | ACATAAAGAA | TTTTATGATA  | 51480 |
| TTTTTATGGT | TTTAAATTTT | TTTGAAATAA | ACTTAGGAGC  | ATTAGTTGCT | TTTGTGTGTG  | 51540 |
| GTATTTTCTC | AATAAATTTT | TTTTTTAAAA | TGCTTAATAA  | CAAAAACTG  | TATTATTTTTT | 51600 |
| CTATATATTT | ATTTGCACTT | TCAATTATAG | TTTGTATTTT  | TGTTAGAATA | TGAAAGATTT  | 51660 |
| TTATCAGTAT | TTTCAATTTT | TGTTTTTTTT | CATGCTTTCG  | GTTATTTCTT | TTTCTCTTTT  | 51720 |
| TGTAGCATT  | ACCCCTTTGA | GCAATGTATT | TGTATTTTTT  | GTTTTCAATT | TACTAGGGCA  | 51780 |
| AATACTTCTT | AATGTTTTTT | CATTTTGTG  | ATTTTATTTA  | ATAGTATATC | CAATTGTTAA  | 51840 |
| TTGGTACGCC | TATAAAAAAC | ATATTTTAC  | TAAACGATTT  | ATATTTAATT | GGAATTATAC  | 51900 |
| CGTAATATTG | TTTTTTACTT | TAATATTTTT | AATAAAAAAT  | AATTCTAATG | TTGAAAAATC  | 51960 |
| TTATTTTATT | AAGATATTTT | TTATTAATTT | TGGTATAGTA  | TTGGGGAATT | TTTTTATTTT  | 52020 |
| TACTCTTTTA | ATTTTAGAAT | TTGTGTGTG  | GATTTACTTA  | AATTATGTCT | TTTTTAAGGA  | 52080 |
| TGTTAATTTT | ATTTTAGATA | CTTTTAAATT | TTTAGAGTTT  | AAGATTAAAA | TTTTGTTTGA  | 52140 |
| AAATATATTA | AGTTATTTTC | CCTTTTCAAA | TTCATTGGAT  | GTAAAAAAG  | ATATTAAAGT  | 52200 |
| TTATGGAGAT | TCTGTAGATG | ATCTTAAAGA | TTCTCAAGTT  | TTTGATGAAA | AAAAGAATAT  | 52260 |
| TATTAATGAT | GAAGAATATC | AGGCTTTATG | GTCATTTAGC  | GCCTTTTTTA | GAAACAATAA  | 52320 |
| AAAGCCTTCC | AATATTAATT | TAGACAAAAC | TATTTTTGAA  | GGCTCAGATC | TCAAAGAAGC  | 52380 |
| AAGCTCTTTA | AATAAGGATA | TTTTAAATGA | GAATGCTTTA  | AATTTAGATG | AAAATGTAGA  | 52440 |
| TGAAATTGAT | GAGTCTTGTG | AGTATAAATA | TTTAGACAAT  | CTTGAGGATA | ATAAGTTAGT  | 52500 |
| TATTAGTGGA | AAGGTAAAG  | CCTGTGAGAT | AAGAACTAAG  | GGCATAATTA | GTCAGGTCGC  | 52560 |
| TATTTCTCAT | GTTTATAACG | AAAATGTAGC | TTTGAATAAA  | AAAAATGATT | CTTACGTTAT  | 52620 |
| TGATATTTCA | GTTTTTGACC | AGAAAGAGAT | TAAAAATGAT  | GTAGAGGATA | TTGAATATGA  | 52680 |
| TAAAGAAATT | CAAAAGCAAT | CAATGATTCT | CCAGGAGACA  | TTAAAAGAGT | TTAATATTAA  | 52740 |
| TGCTAAATTA | ATTGATATTA | TTAAAGGCCC | TGTTGTTACA  | ATGTATGCTG | TTCGTCCAGA  | 52800 |
| TAAGGGAATT | AAGCTTTCTA | AGATTACTTC | TATTTCTGAT  | AATATTGCCT | TAAGGCTTGC  | 52860 |
| GGCTATTAGG | GTTAGGATTA | TTGCTCCAAT | TCCTGGCAGA  | GAAGCTGTAG | GAATTGAAAT  | 52920 |
| TCCCAATAAA | AGGCGTGAGT | TTATTTTAAT | TTCAAGAGATA | ATAGACAGCA | AGGAATTTAG  | 52980 |



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| AGGTGATTTT AGAATTCCTT TTGCTCTTGG AAAGGAGATT AGTGGCGAAA ATATTGTTTT | 53040 |
| TGACCTTGTT AATTCTCCAC ATTTATTAAT AGCTGGTGCA ACTGGGGCGG GTAAATCTGT | 53100 |
| TTGTGTGAAT TCTTTAATTG CTTCAATTAT TTTTTCAAAA TCTCCAGATG AAGTGAAATT | 53160 |
| AATTATGATA GATCCCAAAA TAGTTGAGCT TAAACTTTTT AATGATATTC CTCATTTATT | 53220 |
| AACTCCAGTT ATTACAGATG TAAAGAGAGC CTTAGAGGCT CTTAGATGGT GTCTTGATGA | 53280 |
| AATGGAAAGA AGGTATGTGC TTCTTGATAA TTTATTGGTA AGAGATATTT CTTCTTATAA | 53340 |
| TAAAAAATA AAAGATGAGA ATTTGAATTT AATGATTTTG CCATATCTTG TAATAATTAT  | 53400 |
| TGATGAATTT GCAGATCTTA TTCTTTCTGC AAGAAAAGAT TTGGAAAATT TAATTTCTAG | 53460 |
| ACTTGCTGCA ATGGCTAGAG CTGTGGGGAT TCATTGGTGT CTTGCGACCC AAAGACCTTC | 53520 |
| TGTTGATGTT ATTACGGGCG TAATAAAAGC CAATTTTCCT TCAAGGATTT CTTTCATGGT | 53580 |
| GGCCAGCTCT ATGGATTCGA GAATAATTCT TGGATCTTCT GGTGCTGAAA AACTTTTAGG | 53640 |
| AAAGGGGGAT ATGCTTTATA TTAGCTCTTT AAATCCTTTT CCTCAAAGAA TTCAGGGTGG | 53700 |
| ATTTTTTAAAG GAAAGAGAAG TTTACAGGCT TGTGAAGAG GTTAAAAAAT TTGGTTCTCC | 53760 |
| AAATTATATT GATGATGAAA TATTTATTGA TAGTGTAATA GAGCCAGATT TGGTTGCTCT | 53820 |
| TGGACCTTCT GATGAGCCAA TGTTTGATGA AGCTCTTGAG ATTGTTAAAA CCACAAGAAA | 53880 |
| AGCCTCAGCA TCTTATCTGC AAAGAAGACT GAAGATAGGT TACAACAGAG CAGCTAGAAT | 53940 |
| TATTGAAATT ATGGAAGATA TGGGATATGT AGGACCTGTT AATGGATCAA AGCCAAGAGA | 54000 |
| GGTGTTAATT TAAAATAAAG AGATATCCAT TTGAACATCT CTTGTGCGAT CTATCTATTA | 54060 |
| GTTTTTTGTT TTAATTTTCT TACTTTTTTT GCCTGTTTTT TTTTAAAAGC TTTTTCCTTT | 54120 |
| TTTACACGTA TTGTGGATGG TTTTTCATAG TATTCTCTTC TTTTCCATTC GCGAATAATT | 54180 |
| GCTTCTTTTT CAATCATTCT TTTAAAACGT TTCAATGCTT TTTCAAGATT TTCATTTTTG | 54240 |
| TCCACAGTGA CTGTTACCAA AAAATCACCT CCTTTTATTC TATCTTTTTA ATATTATTTA | 54300 |
| TTATTTTATT TTTGTCAATA AGCATGCCAT TTAAAAGGAA ATCTGGGTTT ATTGCTATGC | 54360 |
| CATTAATTCT TACTTCAAAG TGTAATGAG GGCCTGTTGA AAGGCCTGTA TTTCCAGTAT  | 54420 |
| GTCCAATATA TTCCCCAGCA CTAACATTTT TATTTTCACT TATTTCCAAT TTTGAGAGGT | 54480 |
| GAAGATAAAT TGTAATAACT CCCGGTAAAT GTTGATTAT AAGGGTATTG CCTGTTAGCT  | 54540 |
| CTCTATTTTG TGCAACACA ACTTTTCCTT TGCCAGCAGC AAAAATCGGA GTATTTTCTC  | 54600 |
| TTTTAAATGG GGCATAATCA ATTCCATTGT GCATTGTATA ATTTGAAATT TTTTGTGTC  | 54660 |
| CTTGCATGTA AAGTCTTAAA TCTCCGTATA GGCTTGTTAC AATGTATTGA TCTTTTATTG | 54720 |

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| GTTTGGACTAA AGCATCGTAG TGGTATATTG TTGTGTCTCC AGTATTGCCA ATAATATTCC | 54780 |
| ACAAAACCAA AGCCTGTTCT TTTTGTTTTG TTGATTTTTT TTGGGTGATA AGCTTGGCTT  | 54840 |
| TTTCTTTATT AAAACTAATT TTTGTTTTTT TGAAGTGAAA TTTTTTTATT TCTATTTCTT  | 54900 |
| TGATGTAGCT TTTATTTTCA AATTCTATTT GAATTTTTCT TTTACCTTCT TTTATCAT TG | 54960 |
| GTGTAATTCC CATAAGTGCT ATGTAGTAAA TTTTACTTCC TACTGTAAAT TTAAACGGAG  | 55020 |
| AAGAGCTTAT GATTGGATTT TTATTTGTGC TTAAAAGTGA TAAACTTTTA AAGTTTTGAT  | 55080 |
| TACTTGCAAA GTATATGTAA TCTCCTTGAA ATGCCTCTTT TTTATATTGG ACTTTAGGAA  | 55140 |
| TAGTATTTAT TATTTCTGAA TTTATATTTT CTATTCCTAG AATACACAGT ATAAGTAGGG  | 55200 |
| CTTTTTGTAT TCTATACATT GATTTGAGCA TTCTTTTTTA TGTCTATGAT TTTCAAATTT  | 55260 |
| TTTTCTCTAG GATAATAAAA ATCTTCATTA ACTGTAAAAA TGATGTCTAA ATATTGATCT  | 55320 |
| TCTTTTATAT CCAATTCTTC TATTTTTTTT GTTCCGTAA AAAAAATAGC TTTATAATAA   | 55380 |
| TCGTTTTGTG ATTTAATTCT CATATTTATA TGTTTTGAGC TATGATTTTT GTCAATTATT  | 55440 |
| TTGAGTTCTT GAAGGTAAGC ATTTTTCATT AATAATATTG GCTCTCTAAA TTCATAGCCA  | 55500 |
| TAAGGTTCAA ATATTTCTAT TGTTTTGAAA AGAGAATCTT TTGTTAAATT TTTTGGAAGA  | 55560 |
| ATAGCATCTA TTGGTATTGA TTCGTTTTCA TTAGTAGTTT CATATTCAAC TTTTGTAGTT  | 55620 |
| GCATATTCTA ATTCTTTAAT AAAGTCTTCG AGTAAATTTT CATGCAGCGT AAATCCAGCT  | 55680 |
| GCAGCTTTAT GGCCCCCGA ATTTATTACT AAATGGGAAG GTATTATTGA TATTAGTGTT   | 55740 |
| TTTGAATTGA TTTTATTGTT TGATCTAATT GATCCTTTAA TAATGTTATC TTGCTTTGTT  | 55800 |
| AAAAAATAG CAACTTTTTG ATAGTAAGAA GAAAGTCTAG TTGCAATTCT AGAACTTATT   | 55860 |
| CCTTTTGGAG TATTGTTATC ATAGCAAAC TATGAATTTAT CATTTTTAAA AATAGTATTT  | 55920 |
| TTATTATGCG AATTCCAAGC TTTTCTTCT TTGTATTTT TCAGTTCGTT GATTTCTTTT    | 55980 |
| ATTTCTTTAA ATTTGTTTTT TATTTGATTA ATGTCATTAG TTAGTAAAAA ATTTATTGCA  | 56040 |
| ATATCTGCTT TTTCAAGCCT TCCCGTTGAG TTTAGTATTG GTGCAATTTT ATATGCAATA  | 56100 |
| TCTGTTGAAG TTATATTTGG TTTTGTTAAT ATGTTTCCAT CTTTAAATAG ATAATTAATA  | 56160 |
| GACATTCTCT CTCTTAGTGC GATTTCTTTA AGTCCTACTT TTAGGATTAT TCTGTTTTCA  | 56220 |
| TTAATAATGG GCATATTGTC TGCTATTGTT CCTATTGCAA CAAACTAAG TCTTTTTAGG   | 56280 |
| CATTTTTGGA GCAAATTTTT GTTAGTTTCA AAAATTACGT TGTAATAATAT GTAGTAAAGC | 56340 |
| TTGTCTTTAA TCTCAACTTC TTTGTATTTG AAATATTTGG TTGCTTGGAT TAAGTCTGTT  | 56400 |
| AATGTTTTTT TTCTAAAGTT TGGGTATTTT TTTATAAAAT TTCACTAAT ATCAATTGTG   | 56460 |
| TTTATGTTTA TGCTTTTTGC AAAGTGTTTA TTTAATAATT CATTTTGATC TTCTTTGTTA  | 56520 |

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| AAGATTATTA TACATTTGTT TTGTACAAAT TTTTCTAGTT TGTTTGAGTT AATTAGGGGA  | 56580 |
| TCATTTTTAT TATTTAATCT TAGATATTGT TTTAGAATGT AGTTGTTTAT TTCTATTGCG  | 56640 |
| TGAAGAATAA TTTCATTTTT TGTTTTTTCT AAAAAATAAA ATACAAGGTT TTTAGAATAA  | 56700 |
| AGGTCTGTAA AGGACATACT AAGAGCAAGG CAAGCTTTAA AGCTTACACA ACATCCTGCT  | 56760 |
| ATTTCTTTGA ATGGATATTT GTCATCTTTT AGGTGAGGAT TTATAACTAT GTTTTCAGTT  | 56820 |
| TTAAAATTTT CGCCTGGAAG ATGATGGTCT GTTATTATTA TTTCTATTCC TTTTGAATTT  | 56880 |
| GCATAATTTA TTTCTTCAAT GCTAGAAATA CCATTATCAA CAGTTATTAT TAAAGAGATT  | 56940 |
| TTTTTTTTCTA AAGCTGTGTT GATTAATTCG TTTGAAAGTC CATAAACTC TCCATTTGAA  | 57000 |
| GGTATTTTAT AACTCACATT AAGTCCAAA TCTTTAAGAG TTTCGTACAT TATTATTGTT   | 57060 |
| GCTGTGATTC CATCAGCATC TTTATCTCCA AAGATTAATA TGTTTTCAAT ATTTTGGATT  | 57120 |
| GCTTTATTAA TTCTGTTTAT AAATTTATCT ATATTTTTTA ATAAAAATGG GTTGTGTAAT  | 57180 |
| AAATTTACGC TGTCTTCAAG GAAAAACATA AAATCTTCTT CTTTGATTTC TCGATTTATA  | 57240 |
| AGTAAAGTTG CCTCAAAGGC ATTGATATTA TATTGCTTAG CAATGCGAGT TAATTCCTGG  | 57300 |
| GCCTGTATAT TAGTTTCTTT TTGTTTCCAA ATTTTCATTT ACTTCTCTAG AATTCATTTT  | 57360 |
| TAATCGATTT TTCAAGGATT ATTCTTTACT AACTTCACCA TAGATTAATT AATTTTAAGT  | 57420 |
| AGTAGTTATT ATGCTTATTA TCGAATGGTA TAGTTTTAGC GGATTGTAAT TTTTACTATA  | 57480 |
| ATCCAAATTA ATGGTCATAA TTTTAACTGT TAAAATTCTC ATTTTATTAT TTTATAATAA  | 57540 |
| AAAAAATTAT TATTAAATGA ATTTCCATAA AATATTTGTT TTGTTATAAT TAGCTTAGGA  | 57600 |
| GATTTCAAGT TTTATGGATG AATCTAAAA AGCTAGGTCA GGAGATAAAA AAAAAGAAAA   | 57660 |
| AGCCGTAGCT GGGATTTTAC CCCATTCTAA TAAGCCCGCA AGAGTGCCTT TAATAGCGGT  | 57720 |
| TCCTTCTCAT CCAGTTTTTC CAGGGATGTT TATTCCGATT GTTTTAATCT CTGATTCTGA  | 57780 |
| TATGAAAGCA ATCGATTATG CTATGAAAGG CAATGGGATC ATGTCCTTAT TTGTTTTGAA  | 57840 |
| TGATAAATTT TTAGAAAAAA ATAACAATAA TGCTCAACAG AAATTAATTA TTGATTATAG  | 57900 |
| TAAAGATATT TATTCTGTTG GAGTTACTGG AAAGATAATA AAAAAATTA ATCTTCCAGA   | 57960 |
| TGGTGGTTAC AATATATTTG TTTCAACTTT TGATAGGATT AAATTTGTTA AAGTTGTTCT  | 58020 |
| TAATGATAAG TTTCCCATAA TTGAGATTGA CTATTTAAAG CAAATTCCAG TTAGAAAAGA  | 58080 |
| TGATATTCAA TCAAAGGCAG TTTACGGTAG TATTTTGCTT AGAACTAAAG AAATATTTGC  | 58140 |
| ACATAGGAAA ATGCCGGAAG TTCAATTAAA TATGGTTAAT ATTGAAGATA AGGGAAAACT  | 58200 |
| ATGTGATATT GTGGCTAGCA CTATTTTCGTC TTCAAAAAAT GATCATCAAA TAGTTCTTGA | 58260 |

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| AACTTTGAAT GTAAAAGATA GGCTTAAAAA AGTTTTAGAA CTGATTTATG AAGAGCTTAA  | 58320 |
| TTTAATTGAA ATTCAAAAATA AAATTGCCAA GGGCATTCAA GAGAGATTAG AGAAACAGCA | 58380 |
| AAAAGAGTTT TTTTAAAAAG AACAGCTTAA GGCTATTAAA GCTGAACTTG GCATAGGAGA  | 58440 |
| TAAAAAAGC AGCGATTTAG AAAAGCTTAA AACCAAGCTA AAGGCTTTAG AGTTGAAGGG   | 58500 |
| AGAGCCTTTA GAGGTAGTTG AAAAAGAGTT AGAAAAATTT TCACTTCTTG AAACAAGTTC  | 58560 |
| GGCTGAATAC ATTGTTGTTA GAAATTATCT TGAGCTTATT ACTGAGCTTC CTTGGCGAGA  | 58620 |
| TTTTAAAATT AATTTTGATA AATTAGATTT GCAAAAATCT AAAAAATTT TAGATAAAAC   | 58680 |
| TCATTACGGA ATGAACGAAG TTAAGGATAG AATTATTGAA TATATTTCTG TTCTTAAGTT  | 58740 |
| AAGAAAGACT CAAAAGGGGG CTATTATTCT TTTGGTGGGA CCTCCTGGCG TGGGAAAAAC  | 58800 |
| TTCTATTGGG GCAGCTATTG CAAAGGTTTT GCGTACCAAG TTTTTTAGGT TTTCTGTTGG  | 58860 |
| TGGAATGCGC GATGAGTCGG AGATTAAGGG ACACAGAAGA ACTTATGTTG GTGCTTTGCC  | 58920 |
| TGGAAAAATT ATTCAGGGCT TAAGAATTAC CAAGACAAAT TCTCCTGTTT TTTAATTGA   | 58980 |
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| TTTAGATCCT GAACAGAATG TTAGGTTTAG AGATCATTAT CTTGATCTTC CTTTTGATAT  | 59100 |
| TTCGAATGTA TTTTTTATTT TAACTGCTAA TTCTGTTGAA ACAATACCAA GACCTTTGTT  | 59160 |
| AAATAGAATG GAGATTATTG AAATTTCTGG ATATATTGAT AACGAAAAA TAGAGATTGC   | 59220 |
| AAGAAAGTAT TTAATTCCCA AAGTTTAAAG TGAAAACGGA GTTGATAAAG ATTCTTTAAA  | 59280 |
| ATTTCAAAGT TCATCTCTTG TTCAAATTGC TCAAGAGTAT GCAAGAGATA ATGGAGTGAG  | 59340 |
| AAATTTTGAA AAATATTTAA ACAAATTTGT AAGAAAGGTT GCTAGAAAGC TTATTGAGAA  | 59400 |
| TACTGAGGTT AAATCTTATC AAATTTCCAA TGACAATTTA GAAGAATATG TTGGTGTGCC  | 59460 |
| TGTTTTTAGA AAAGAAAGCA TGCCTAATGC TATGTATTCA GGGATGGTAA TGGGCCTTGC  | 59520 |
| TTGGACAAAT TATGGAGGTT CACTTTGAT GATTGAGACT GTAAAGACGG AATCCAAGGT   | 59580 |
| GGGTGGAATT AAATTAACAG GTAGACTTGG GGATGTTATG AAAGAATCTG CTAATATTGC  | 59640 |
| CTATACTTAT GTTAATAGCA TTAAAGGAGA TTAAAGTATT AGTAAATCTT TTTTTGAAAA  | 59700 |
| AAATATTATT CATTTACATA TTCCAGAAGG AGCTACCCCA AAAGATGGGC CTTCTGCAGG  | 59760 |
| AATTACAATA GCTAGTGCTT TTATCTCTCT TGCTCTTAAT AAGGTTGTTA GACCCCATTT  | 59820 |
| GGCTATGACA GGAGAACTTT CTCTTACTGG GAATGTAATG ATGATAGGGG GCCTTAAAGA  | 59880 |
| AAAAATAATT GCAGCAAAGC GCAGTGGCGT GGAGCATATT ATTGTTCCCTA AGGCAAATAG | 59940 |
| AGTGGATTTA GAAGAGATTC CTACTAACAT TAAGAGCGGA ATTAATTTTT ATCTGTAGA   | 60000 |
| TAATATGCGC GAGGTCATTA AATTATTGTT TTAATTTTTT AAAATTGTTG TTTGAGGCTA  | 60060 |

GCTTTACTCT AGGTTTAAAT AAATAAATTA ATAATGGAAG AAGAGTTAGT GATGCAAGAG 60120  
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TTACTACAAA AGTAGCAAGA GGCCCTAAGA TTTTGAAGTC TTCAACCATG TAGTTTAAGA 61740  
TTTTTCTCT TACTATTAAA TCCCCCGTAA GATACAACCT TAAATCGTCA GTTTCATATT 61800

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|-------------|-------------|------------|-------------|-------------|-------------|-------|
| TTTAAATTGT  | TTTTTCCATC  | TCATCAAGTT | CAGTTTTTTAA | ATTTCTACTG  | AAGTTGATTT  | 61860 |
| GGTCACTCTC  | TGATGGGATT  | ATTATGAAGT | ATATTAAATT  | TTCTGAGTTG  | CCTAAGAATG  | 61920 |
| TGTTTTTTTAC | AAATGGAGTT  | GACTTTATTT | TGCTTTTTTAT | TTCTTCTATA  | TCTTTATCAG  | 61980 |
| TGTAGATTTT  | TTTTTTTAAAT | TGTGGGAAAT | AAGAAAATAT  | GCTTGTAACG  | GCATTTGGAG  | 62040 |
| ATACTTTTAA  | AATTTTGGTT  | ATTTCACTGA | TTACGCTGTT  | TATTGTTTCA  | AAATTTTTTT  | 62100 |
| TATTGAAGAT  | ATTTTTTTTA  | TCCTGAAATA | TTACTATTGT  | AGATAAAAGT  | GAATTACTTT  | 62160 |
| TATCAATGTC  | TATTAAGCTT  | TCAGTTTCTT | TGGTCTTGGG  | TATAAGTTTT  | AAGATGTTTG  | 62220 |
| CATCGAATTT  | AAGATTTTTTC | AAAAAAAATC | CTAAAAAAAT  | AGTAATTAAG  | ATAAATATTG  | 62280 |
| TGAATATAAT  | TCCTTTATAT  | CTAATGCTTA | GACCTTCAAA  | GTCCATATAA  | CGCCTCTTTT  | 62340 |
| TTACTTTTATC | ACTATGTTGA  | CAAGCTTGTT | TTTAATTACA  | ATTATTTTTTA | CTATTTTTTT  | 62400 |
| ATTTAATAAG  | TTTGATTTTA  | TTTTGCTATT | TTCCATTGCT  | ATTTCTTTTA  | GTTCTTTTTTC | 62460 |
| GCCTGTCTCT  | TTGTTTAGTA  | AAATTTTGTC | TTTTATTTTT  | CCATTTATTT  | GCAAGACAAT  | 62520 |
| TTCTTTTTTTG | CCTTTAATAA  | TAAGGCTTTC | ATCGAATTTT  | GGCCATTTTG  | AATTTTTTGAA | 62580 |
| TAAACTAGGA  | AGCTCTCCAA  | TATATTCCCA | CAACTCTTCT  | GCTAAATGGG  | GTGCATAGGG  | 62640 |
| AGATAAAATA  | ATGATAAACG  | GTTTAAATAT | GTTTAAATAA  | TTTTTTTCAT  | ACTTTAGAAG  | 62700 |
| TTCATTTATA  | AATATCATCA  | TGGCGGAGAT | TGCTGTGTTA  | AAATTTAGTT  | TTTCTGTGTC  | 62760 |
| TTCTGTGACT  | TTTTTTTATTA | CTTTATGTAG | TTCAGATATT  | ATTTCCCTTG  | GGGGATTCTC  | 62820 |
| TTTTGATAGT  | TCTTTTTCTC  | TTAAGTTCCA | AATTTTGTTT  | AAAAATCGAA  | AAACACCAAT  | 62880 |
| AATTCCTTTA  | GTGTTCCAAG  | GCTTAGAATC | TGTTAGTGGC  | CCCATAAACA  | TTTCATAAAT  | 62940 |
| TCTCATTGAG  | TCTGCTCCAA  | ATTCCTTAAT | AATGTCGTCT  | GGGTTTATTA  | CATTTTTTTAA | 63000 |
| AGATTTTGAC  | ATTTTGCCAA  | TTACTTGGGT | TACTTCTTTG  | TTATCTTTTT  | TATCAAAAAA  | 63060 |
| TTTATTGTCT  | TTTTCTATAA  | CTTGGTCATT | GGGTATTAAA  | ACCCCGTTTT  | CTTTTTGATA  | 63120 |
| AGAAAATGAT  | GTTATTATGC  | CTTGATTTAT | TAGCTTTTTTA | AAAGGTTCTT  | TGGTATTTAC  | 63180 |
| GTATCCTAGA  | TCATAAAGAA  | CCTTGTGCCA | AAACCTTGAG  | TAAAGCAGGT  | GTAATACTGT  | 63240 |
| ATGTTTCAGCT | CCGCCTATGT  | ATAGATCAAC | CGGCATCCAA  | TATTCAATTT  | TTTTTTTGTT  | 63300 |
| TGCAAACCTCT | TTTGAGTTTT  | TGGGGTCTAA | GTATCTTAAA  | TAATACCAAC  | AAGAGCCTGC  | 63360 |
| CCATTGAGGC  | ATTGTGTTTG  | TTTCTCTTGT | AAAGCCCATTA | TCTTTTACGT  | TTACCCAATC  | 63420 |
| TTTAATTCCT  | GACAAAGGAG  | ATTCACCTGT | TCCAGAAAGGT | TTATAGTTTG  | CAATTTCTGG  | 63480 |
| AAGCTTTAAG  | GGAAGATCAT  | TTTCCTCTAA | AGGTATTGCA  | TTTCCAAGTT  | TATCAAACAA  | 63540 |
| AATGGGTATA  | GGCTCTCCCC  | AGTATCTTTG | TCTTGAAAAA  | ATCCAATCTC  | TAAGCTTGTA  | 63600 |

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| GGCAACTTTT | TCTTTCCTT  | TTTTGTTTTT | AGTAAGCCAT | TTTATTACTT | TGTCTTTTAC  | 63660 |
| TTCAGAATTT | TTAAGATTAT | TAAATTCATT | GGGAGAATTT | ATTGAAATTC | CATCATCAAC  | 63720 |
| AAATGCTTTT | TCTAATATTT | CATTTTTCCC | CGATTTTGAT | ATCACGGGTA | AAATTTTTAA  | 63780 |
| TTGATACTTT | TTGGCAAATT | GAAAGTCTCT | TTCATCATGT | GCTGGAACAC | CCATTACAGC  | 63840 |
| TCCGGTTCCG | TAAGTTCCTA | GTACGTAGCT | TCCAACCCAA | ATTGGAATTT | TTTCATTTGT  | 63900 |
| TATTGGATGA | AATGCGTAAG | ATCCTGTGAA | AACTCCCGAT | TTATCTTTTT | CAAGAGAAGT  | 63960 |
| CCTATTAAGA | TCGCTTTTGA | GTTCTTCGTG | CTTTACATAT | TTTAAAACAT | TTTGTTTAAA  | 64020 |
| GTTGTTCCTT | GTTATTTTTT | CTATTAGTTT | ATTTTCTGGT | GCGATCACTA | AATATGTGAT  | 64080 |
| GCCAAAGATT | GTGTCTGGCC | TTGTTGTAAA | GACTTTAATT | TTATCGCTGT | GGCCTTCAAT  | 64140 |
| TTCAAATTCA | ATTTCAACTC | CTGTTGATTT | GCCAATCCAA | TTTCGCTGCA | TTTCTTTTAC  | 64200 |
| AGATTCAGGC | CATTCTAATT | CTTCAAGGTC | GTCTAGCAAT | CTTTCAGCAT | ACTTTGTAAT  | 64260 |
| TTTTAAAACC | CACGTCTTAA | AATATTTTTT | TTCGACGCTG | TAAGATCCTC | TCTCAGATTT  | 64320 |
| TGGTCCATCT | GAAGTTTGAA | TAATCTCTTC | ATTTGCTAGT | ACCGTTCCAA | GCTCGGGGCA  | 64380 |
| GTACCATACA | GGCATTCTTT | TTACATAAGC | TAGCCCTTTT | TTATATAATT | GCAGGAAAAT  | 64440 |
| CCACTGTGTC | CATTTATAGT | AATTCTCCTC | ATGTGTTCTA | ATTTCTCGAT | CCCAATCATA  | 64500 |
| GGCAAACCCC | AAAGCTTTTA | TTTGTTTTTT | AACTTATTA  | ATATTTTCTT | CTGTACTTTT  | 64560 |
| TTGAGGGTGA | GTTCTGTGTT | GTATTGCGTA | ATTTTCAGCA | GGAAGTCCAA | AGCTATCAAA  | 64620 |
| TCCTATTGGG | TGAAGTACAT | GAAATCCATT | CAAAAGCTTG | TATCTTCCAA | ATATGTCTGT  | 64680 |
| TGCTGTGTAT | CCTTCTGGAT | GACCAACATG | AAGCCCGTTG | GCAGAAGGAT | AGGGGAACAT  | 64740 |
| GTCAAGTATA | TACAATCTTT | TTTCCTTGGG | AATACTTGGA | TCTTCTTCTA | CTTTGTATGT  | 64800 |
| TTTGTTATTA | TCCCAAAATT | CTTGCCATTT | TTTTTCAATT | TTTATGAATT | CGTATTTAGA  | 64860 |
| CATTTGTCCT | CTTGAAAATT | AACTCATAAC | AACTTATTCT | CTAATATTCT | TTTAGATTGC  | 64920 |
| ATTTTTGTTA | ATTTTATTTA | ATAATTGCT  | AACAATTTTG | ATGCTGTGAA | CTGGACTTGA  | 64980 |
| ACCAGCACGG | GCTTGCGCCC | ACTAGCCCCT | CAAGCTAGCG | TGTCTACCAC | TTCCACCACC  | 65040 |
| ACAGCACTAT | TAACCATTAT | ATTTTTTATT | TTAAATTTTT | GTCAACTTTT | TTATTTTTTTT | 65100 |
| TAATTACGTA | GATTATTATT | GTTGTTGCTA | TTACAGCGAT | AAATATTGCA | AATATAATTA  | 65160 |
| TTTTTATTTT | TGAAAATATT | ATTTCAAATG | ATTGACCTAG | TTTGAAGCTT | AGAGTAAAAT  | 65220 |
| AAACAACTAT | TGAGAGCAAA | GTTGCAAAGA | AGTCAGAAAC | AATAAATAGA | TTAGATTTC   | 65280 |
| TATTTCCCAT | TCCTGCTGAC | ATAAATATTG | CGTTTCTAAC | TCCAAAGGGT | ATAAACCTTC  | 65340 |

|   |       |
|---|-------|
| CTATAAATAA AGTTAATACC CCATATTGAC CATAATAGTA ATTTATTTTG TCAAGCAGGT | 65400 |
| TATTGTCTTT TTTGTTTTTA AATAATTTAT TTCCCATTA TTTCCCAATG TAAAAAGATA  | 65460 |
| TTATGTCTCC AAGATAGGCT CCCCCAAAAA TTCCTAAAAA TATTAATATA GTATATTCAT | 65520 |
| TTTTTCGACT AGATAAAATT CCACCCATTA GTACTATTGC ATCCTCAGAA ATAGGAACAT | 65580 |
| TAAGTCCTGC TAAAATTAGT AACGAAAAA ATACTATTGG GGAATAAGCT ATGTTTGAAT  | 65640 |
| CAATATATTC TATTATTGTG TTTATATACA TTTTGTTCAT CTATTTCTTG TTTTATAAGT | 65700 |
| TAAATATATG CTTGCTAAAG TTAAATATGC AAAGTAAAGG ATAAGAACCG TTTTGGCCAT | 65760 |
| TTTTAACGCT GTTGTGGACA GCTCTGAAAA TATTGATACA ACAAATATTA GGCAACTTAT | 65820 |
| TATTGTTATT GGTATGGTAA TTTTCCTTAA TTCTTTGGTT TTTGATGGGT AAATAAATTT | 65880 |
| TATTGGAATA AAGCTTGTTA TAATGCATAT TGACATTGTA ATAAGATTG TTATTTGTTC  | 65940 |
| CATTTTAAAG ATTATGTTTA ATATCACAAA GAGATTCCAT AGGGAAGGAA ATCCCCTAAA | 66000 |
| GTAGTTATCA TTTGTTTTTG CATCTGTTCT TGAGAATTGG TATGCTGATG AGAGTAAAT  | 66060 |
| TCCGATGCAA ATGGCGACTT TATATTTTTC TTCAATAAAT TCTCCTAAAT AAAAAATAT  | 66120 |
| AACGGGTATG AATGTATAGT TTATATAGTC TGTAATATTA TCAAGTAGAG TGCCATCAAT | 66180 |
| TTCGGGTATT AATCTTTAA CCTTAAGTTT TCTTGCCATA GTTCCGTCAA TTCCATCTAT  | 66240 |
| GATAAGCCCT ATTACTGTTA ACTTTAAAAG AAGAGAATAA TTACCGTTTA CAATTGAAAT | 66300 |
| TATTGAGTAA AGTCCTACAA TCAAGCCAGA TGCTGTAAAA ATATGTACAA GCCAAGCTAA | 66360 |
| AATCAAATTG ATATTTTTCA CAGTAAAGCT CCTTTTATTG GAATATTTTC TTTATCTCTT | 66420 |
| CAAGTCTGCA TTTGAAAATG TTAATAGTGT TTTCTATTGT TGCTTTTTTT GTTAAATCTA | 66480 |
| CTCCGGTAAT ATTTAAGGAA TCTAGCGGAT ATTTAGAACC ACCTGTTTTT AAAAATTTTA | 66540 |
| TATAATTTTC TACTGCATCT TTTTTATTTT CTTTAATGCC TTTATATATT GACAGAGCAG | 66600 |
| CTGCAATGCC TGTCATATAT TGATACACAT AAAAGGGTGA ATAAAAGTGA GGAATTCTAA | 66660 |
| GGCATTCAAG GGGACTTAAT TCATCAAATT TTAGACTAGG TCCAAAGTAT TTTTSTAACA | 66720 |
| AATTCATATA AGTTTCTGTT AGTGTTTCTT TTACTACAGG TTCTTCTTTG CTAATCATTT | 66780 |
| CATGAATAAT GTACTCAAAT TCAGCAAACA TTGTTTGTCT AAAGAATGTT GAAATCATGT | 66840 |
| CGTCAATTTG TGTTAGTTTT ATATATTTTA TTTTGTAGT ATCGGTTTCG TTTTSTAAGCA | 66900 |
| AATATTCTGC CAATATTTGT TCATTGATTA TTGATGCTAT TTCTGCTTCA AAAATGGAAT | 66960 |
| AATTATAGTG TGGGAATGGG TTGTTTTTTA TGCTAAAGTA AGAGTGCATT GAATGTCCTG | 67020 |
| CTTCATGTGC AAGCGTAAAC ATGTCTCTTA TTGATTCGTC TTTGTAATTA AGAAGTATAT | 67080 |
| AAGGCTTTCC GTTGTATGAT CCAGCGCTAA AAGCCCCTGA TCTTTTTCCA GTATTCTCGT | 67140 |



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CTAGTACCTC TAAAGATTTT AATATTTTCT CACAAGCGTC TTCAAATGAA TTTTAAATA 67260  
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|             |            |             |            |             |            |       |
|-------------|------------|-------------|------------|-------------|------------|-------|
| TAGTGTTTTTC | ATCTATATAA | TAATAAAGTA  | TTTATGAGTT | TAATTGTATA  | ATTATATTGG | 68940 |
| TTTTAAGTAT  | TATTCTCTTT | AATTTTGTGT  | ACTTATTAAG | TATTTTGTGA  | CCAGGTTTTT | 69000 |
| ATCGAAAAAA  | TTTGGATTTT | TGTCTAAGGT  | GTTAAAATAA | ATTTTAAATT  | TTCTTGTTTG | 69060 |
| ATCATGGTAA  | TTTTTAGTAA | GGTTTGTTAT  | GAAGAAAAGA | ATTAGATTTA  | AGATTATTTT | 69120 |
| GGGTTTTTAA  | GGAATTTTAA | AGTTTTTTTT  | AGTTATTTAT | AATTCTTTGT  | TTATAGCCCT | 69180 |
| TAAAGCCATA  | CATTCTTTTT | TTAAGCAAAA  | TATTAGTTTT | ATTGTTATTC  | CCCATGTTAA | 69240 |
| AGGGAATGTC  | AAAAATATTA | AAATTTCTTT  | TTTGACTTTA | TTTTTCTTTT  | CTACTTTTTT | 69300 |
| TTTAGGCGGT  | TTTATAGGGT | TTGTTTTACT  | TGCTGTAAAT | TACGTTACTC  | TCTCATCAAT | 69360 |
| TGTGAAGTCT  | ACAGAGAAAA | ATTACTCTTT  | AGCAGAATCT | GAGATTGAAG  | ATTTTAGAAA | 69420 |
| TACAGTTGTA  | GAAATTAATT | CTGTTGCAAA  | AAATTTTCT  | AAAGTTTATG  | ATGAACTTAA | 69480 |
| AACCTCTTTA  | AAAATCAATT | CTAATGGTGT  | TGATTTAAAT | AAAAATAAAC  | TAGATGGAGA | 69540 |
| TCTTTCTGAT  | TTTATTGATT | TGCAAATTTT  | AGAAGCTAAT | TCAATAAAAG  | AGCTTAGTGA | 69600 |
| TCTTAAAAAT  | ATTAAAAGCA | AAATAGAAAAG | TTCAATTCCT | CCTCTTAAAA  | GCATAGTTAA | 69660 |
| AGTCTTGCAC  | GCCCAAGACA | AGCTTTTAAA  | TGATATTCCT | TCTCTTTGGC  | CTCTTGCGGG | 69720 |
| TGGATCTGGA  | ATTATTACTT | TGCATTTTGG  | TCCTGCTATT | GAGCCTTTTA  | CTAGGCAATG | 69780 |
| GTATATTCAC  | AAAGGCATAG | ATCTTGGGGG  | AGTCAGAATT | GGAACCTCCTA | TTGTTGCAAC | 69840 |
| TGCTGATGGG  | GAAGTTGTTA | GGGCAAGTTA  | TCAGTCAGCA | GGCTATGGTA  | ATTTTGTTC  | 69900 |
| AATTAAGCAT  | AAGTATGGAC | TTGCAACTCT  | TTATGCGCAT | ATGTCGCGGC  | TTAATACTTC | 69960 |
| TAAAGGGTCT  | TATGTTAAAA | AGGGGCAGAT  | AATTGGATTT | ATGGGGCAGA  | CAGGTTATGC | 70020 |
| AACAGGTCCA  | CACGTTCAAT | ATGAGGTTCTG | TGTAGGTTCT | CAAGTTATTA  | ATCCCGATAT | 70080 |
| GTATTTAAAT  | TTAGCAACAG | GAGCTTCAAA  | ATAGATGTTA | AATTTTTTGA  | CTGTAAAAAA | 70140 |
| AGAAAGAAAA  | GCCCCGTCTT | TGTTTTATTTT | TGATGAAATA | AAAACAATAG  | TGGGCGTTGG | 70200 |
| TGATTTTTTT  | AAAGGAGACT | TAGTTTCAAA  | TAATTTTATT | CGGCTTGATG  | GTGATTTTAT | 70260 |
| AGGCACCATT  | AGCTCTACTA | AAAGAGTAAT  | TATTGGGGAG | AGTGGTAGAG  | TTAAATCTAG | 70320 |
| CATTGATGCT  | AATGAACTTG | TTATTTCTGG  | AATGGTTGTG | GGTAATATTT  | ATGCTAAAAG | 70380 |
| CAAGATTAAA  | ATATTTGCAT | CAGGGTGTGT  | TATTGGAAAT | ATTTCTTGTA  | AGTCAATTGA | 70440 |
| AGTTGAAGAG  | GGCGCTATTA | TTGATGGGTA  | TATGGATATT | GGCGCTGAGT  | ATCTTAGAGC | 70500 |
| TCCTGAAAGA  | AATACATTTT | TTTATACTGG  | TTCTTACAAG | GTTAATGAAG  | ATCTTTTAAT | 70560 |
| TGAAATCAAT  | AAGGTGCATC | AAGAAGAAAA  | AAAGCTTTT  | CAACTTTTAG  | AAGGTAAAGA | 70620 |
| TGATAAATAT  | TTTTCAAGTG | TTGTGAACAA  | AATAGATGAA | AGTAAATAAT  | TTAATTGCTG | 70680 |

|             |             |             |            |             |            |       |
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| GGGCATTAAA  | TCTTAATTCA  | AAAGATTATA  | AAAAAAGTGG | CAAAAAGGTG  | TCTTTTGATA | 70740 |
| AGAACAATCT  | TTTTTCTTCG  | ATATTTTCAGG | CTGAAAGTGT | CAAAGAGGAT  | AAGCATTTTA | 70800 |
| TTTTACTTGA  | AAATGGAGAA  | TTTAATCTTG  | ATTTAATTAA | AAGTATGTTA  | GATGGAATTA | 70860 |
| ATGAGACTGG  | TGAGAGACTT  | TTGAGTGAGC  | CTTCCAGACA | AAATGTTATT  | TTTTACAAAA | 70920 |
| AAGTTATTTT  | AGAGTTTATA  | TCCATTATTA  | TATCATCTTC | TGTTTGTTTG  | AAAGAGCAAA | 70980 |
| AAGGGGGAAA  | TTTAGGAGAT  | CCCAAGCGCC  | CCAAGTATAG | AATTATTAAG  | ATTATTAACG | 71040 |
| ACAAGTTAGA  | CAAACTTGCT  | TATTCTGTTT  | TACAAAATCA | AATGACTCAG  | ATTAACTTTT | 71100 |
| TGGATAGCAT  | TGAAGAGATT  | CAAGGCTTGC  | TTGTGAATTT | GCTAATGTGA  | ATTGGGTGTA | 71160 |
| AGACTTTTTTA | ATGTTTTAGG  | TTTTAAAATT  | AAAAGGGATT | GCTTAACAAT  | CCCTTTGTTT | 71220 |
| AATATAAAAA  | TTAATTTTAA  | ATTAAATATT  | TTTTACTTAT | TTCTAAAAAG  | TTTTTTATTT | 71280 |
| GTTCATTTTT  | CCACTCTTCA  | GATTTATTTA  | ATTTTTCCAT | CATTATTTCA  | GCAACTCTTG | 71340 |
| GAGCAGCCTC  | AATTGTAGCT  | TGAGGATTTA  | AAGGTAGTGA | TCTTGTTTCCT | TCTTGCTAAA | 71400 |
| ACATCCTCAA  | TAGTTTTGGC  | TTGTTCAAAT  | TTAATTGAAA | AATCTATTTG  | AGCTTCATTT | 71460 |
| AAATCCAAGT  | TTTCGTGTAT  | TTTTTTGTCA  | AAACCTCCA  | TATTTTTTAG  | AATTTCAAAG | 71520 |
| TCGCTGCCAT  | AAGCTCTAAA  | AGGTTTCAGG  | ATTTTCATTG | CTTCTTCTTT  | TTTAAGGTAG | 71580 |
| CCGTGCAACT  | TTAAATCTTC  | TGTAGTTGGT  | GCACGATTTG | GTATTAAATT  | TTGTTCTATG | 71640 |
| GCCTTAAGCA  | AGGTTTTTTC  | TGCCATTTTT  | CTATATGTGG | TATATTTCCC  | CCCCGCTATT | 71700 |
| GTAATAAGAT  | TTGAATCTGA  | TATAAATATT  | TTTTCGTTTC | TTGAGATTTT  | TGAAGTGTTT | 71760 |
| CCTTGAGCTT  | TTGGATCCAT  | TATTAATGGC  | CTTATTCGGG | TATATACACT  | TTTTACATCT | 71820 |
| GATTTTTTCTA | TTTAAATATT  | TAAATAGTTA  | TTTAAATTAT | TTATTATAAA  | GTCAATCTCT | 71880 |
| TCTTCAAATC  | TTTTGGGTTC  | TTCTTCTATC  | TCTTTTATTG | GAATGTCAGT  | GCTTCCACAA | 71940 |
| ACAACACTAT  | CATACCAAGG  | AATAGCGAAT  | AAAATCCTAT | TATCACTAGT  | TTTAGGTATT | 72000 |
| AATATTGCAT  | GATTTTTTGGG | AAATTTGTCT  | TTTTTGACTA | CTAAATGGCT  | ACCTTGGGAA | 72060 |
| GGTTTAATGA  | TGTTTAAGGC  | TTTTTCATCA  | TCCAACCTTC | TTATTTTCATC | TGAAAATATT | 72120 |
| CCTGTTGCGT  | TTATTATGCA  | TTTGCTTTTT  | AATGAAATTT | GTTCTTTTGA  | CAATTTATTT | 72180 |
| TGTATAAGAA  | CTCCCGAAAG  | CTTTCCGTTT  | TCTTTGTTGA | ATTTTTTAAG  | TTCTGTATAG | 72240 |
| TTAAGGGCAA  | TGCCTCCTTT  | TTCGGTAAAG  | GTTCTTAACA | ATGTTATTGC  | CATTCTAGCA | 72300 |
| TCATCGAATG  | AATCATCGTA  | ATATAGAACA  | GAGCATTTAA | GGCCCTCTGT  | TTAATATTG  | 72360 |
| GGAGCTTTTT  | CAATGGTAGA  | TTTTTTGGAT  | AGTAATTTAG | TTTTGTATTT  | AGTAGTTTTT | 72420 |

|  |       |
|--|-------|
| TCTTTACCCA TAAGATTGTG GTAGTAACTT AATCCAAAAT AATAATAAGG TATTTCTAAA  | 72480 |
| ACATTATAAA TAGGCGTGAT AAGTGCACAT TCGTTAATTA AATGGGGTGC ATTTTTCTCA  | 72540 |
| AGAATGGCTT TTTCGCGCAA AGCTTCTTTA ACTAAAGAAA TATTCCATTG GGCTAAATAT  | 72600 |
| CTTACTCCAC CGTGAATTAA TTTGCTTGAT CTAGAGGAAG TTCCTTTTGC ATAATCAAAT  | 72660 |
| TTTTCTATAA GTATTGCTTT ATACCCCCTT GTAATTGCGT CTACCGCAAT GCCAAGACCT  | 72720 |
| GTTGCGCCCC CTCCAATTAT TATAAGATCA AATTCTTGAT TTTCAAGATC TTTTAATTTT  | 72780 |
| GTTTCTTTGT TATTATTCAT GAAATTTAAA TATTCCTCCA TTTTGTTAA TTTCTTTTCT   | 72840 |
| TTTTAGTTAA ATACTAGATT GAAGAAATTC GAAAAGACCA TTTGTTTTAA TTTTATTGAA  | 72900 |
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| TTAATATATT ATTAATCATT TTTTGTATTG CTCCAATGAA TTTTACCTTT TCAAAAGGTT  | 73020 |
| TAGACAGTTT ATTTTTTGAA TACATGCACA ATATTAATAG ATGTAGATGA AAAAATTTAA  | 73080 |
| TTAAGAGCTG TTTGTATAAT TGATTTATTT GCTTGCCAAA CATTTTTATT ATATGTTGTT  | 73140 |
| TTAGTTTCAA AAAATCAAAT AAATTATGCA TAATTTTGTT ACCAGTATAT TTTTGTTATA  | 73200 |
| ATCTTAAAGC TTTGTTTTGA ACTTTTATGA ACTATGAGAA TTCTGTATCC AGGATTTTGC  | 73260 |
| TTTTCCAACC GCTTTGTTC AATTCTCAAG AAGCTTTTCT TTTTGATTTT TTGGCATTGA   | 73320 |
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| ACCCGTTGCA AGTCCTGCAA GATAAGCAGC GCCAAGAGCG GTTGTTTCTG TTATTTTTGG  | 73440 |
| TCTTACAAC TACATTCTA AAAGATCAGC TTGAAATTGC ATTAATAGAT TGTTTTGACT    | 73500 |
| TGCTCCCCCG TCTACTCTTA ATTCTTGAAT TTCAAAGTTG GGAATGGATT TTTTCATGGT  | 73560 |
| ATTTAGTATA TCGAAGCTTT GAAATGCGAT GCTCTCAAGA GCAGCTCTTG TAATGTGAGC  | 73620 |
| TTTTGTTGAG CCTCTTGTTA TTCCGATGAT TGTTCTCTT GCATAAGAAT CCCAGTGAGG   | 73680 |
| TGCACCAAGC CCAACAAATG CTGGCACAAA ATAACTCCA CCATTATCTG AGACAGAGCT   | 73740 |
| TGCCAACGCT TCTGCATCTG AGCTTTTTTCT GAAAAATTCA AGACCGTCTC TTAACCACTG | 73800 |
| GATTACAGCT CCTCCAATAA AAACACTTCC TTCAAGAACG TAGGTTACAG ATTTTTTTCT  | 73860 |
| TCCCCATGCA ATTGAAGTTA AAAGCTTGTC GTGGCTAATG ATTGGTTCTT TTCTATATT   | 73920 |
| AACCGTTAAG AAGCAGCCAG TTCCATAAGT GTTTTTGGCC ATACCTTTT TAAGGCAGGC   | 73980 |
| TTGTCCAAAT GTTGCTGCAA ATTGATCCCC AGCAATTCCT GCAATAGGAA TTTCTGCTCC  | 74040 |
| AAATAGTGCT TTGTCTGTTT TGCCGTATAT TGTAGAACTT TCTTTAAGTT CAGGCAAAAT  | 74100 |
| TGCCCTTGGA ACATTTAATA TGCTTAAAG TTCATCATCC CACTCTAATG TTTTAATGTT   | 74160 |
| TAATAATAAT GTTCTTGAAG CATTAGAGTA ATCGGTTGCA TGTTCTTTTT TTTGAGTCAG  | 74220 |

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| CTAACTTTGT AGGCAATGAA ATATTGTATT TTGATGTTAA TAACAATGTT AATGCTTTAG  | 79560 |
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| TTTATGTGAC TCTTTATTCA AGTGATGAAA TTGGTGTTTA TGACAAAGTT CTTGGAGTTA  | 79680 |
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| TGGCTATTGA TAAGAGAAAC TATATTTATG TAAGTGAGTG GGGAAATAAA AGAGTAAGTA  | 79800 |
| AATTTGGACT TGAAGGTGAT TTTATTTTGC ATTTTGTTTC TAGAACTTCA GGCTATAAGG  | 79860 |
| GCCTTTTAGG TCCCACAGGC GTTACTTATT TGAATGAAAA CATTTATGTT GCAGATTCTC  | 79920 |
| TGAGAAATAC CATTGAAGTT TTTGATACTA GTGGTAATCA TTTATATTCA GTTTTTACTT  | 79980 |
| CTATTGAGGG AATAGAGGGG CTTAGCAGTG ATTTTGTTAGG TAATAATGTT ATAGTATCCT | 80040 |
| CAAAAGATGG TGTTTATAAA TATAGCATTG CTAAAAAGAC AATTACAAAA ATTTTAAAAG  | 80100 |
| CAGATAAAAT GAATTCTAAA ATTTCTTCAT CTATTTTGGA TGCCAATAAT CAGATGATTG  | 80160 |
| TCTCAGATTT TAATAATGCC AAGGTTTCAG TTTACAAGAG TGATGCAAGC CTTTATGATA  | 80220 |
| GTTTAAATGT TGATGTTAGA AGAATAATTA GGCTTGGAGG GCCTAAAATT TACGTTGAGC  | 80280 |
| TTAATGTTAG CAGTAAAAGC GGATTACCAG TTGTTGGGCT TAAAAGTGAA AATTTTTCAA  | 80340 |
| TTTCAAATGA AAATTATTAC ATTGTCAATC CCAAGGTGGC ATATAATGTA AATGCTTCAA  | 80400 |
| AAGACATTAA TATAGCAGTT GTTTTTGATA AATCTTCTTA TATGAAAAAA TATGATACAG  | 80460 |
| ATCAAATTGT AGGGTTAAAT GCCCTAATGG AGTTGTCAAA AAATAAAAAAC TTTAGTTTTA | 80520 |
| TAAATGCAAC AAGTGTGCCC ATTATAGATA ATATTGAAAG CTTAACAAAT AGCATTAGAA  | 80580 |
| ATACAAGTTC TCTTGGTCCT TATAGTACAG ATGCTGTAAA AACAGACGTT AGTTTGAAGT  | 80640 |
| TGGCAGGTTT TGGGCTTATG TCAAAAAGCT CAAGAAGAGC AGTAGTTTAT TTTAGTGGTG  | 80700 |
| GTATTTTAAA TCGTAAAGCT TTTGAAAAGT ACTCTTTAGA TACAATAGTA AGCTATTATA  | 80760 |
| AAAATAATGA TATAAGGTTT TACTTAATAC TATTTGGTAA TGATCCTATT AATAGTAAGC  | 80820 |
| TTCAGTATTT AGTTAATGAA ACAGGCGGTG CTGTAATTCC TTTTTCATCT TATGAAGGTG  | 80880 |
| TATCTAAAGT TTATGATTTA ATTTTAGAAC AAAAAACGGG CACTTATTTG TTGGAATATT  | 80940 |
| ATTATCCAGG CCCTCAAGAA CCTAATAAAT ATTTTAATTT ATCTGTTGAA GCAAATATAA  | 81000 |
| ATCAACAGAC AGGAAGAGGG GAGTTTGCAT ATTTTATTAA TTAGATTTCT TTTTGATTTT  | 81060 |
| ATTAGAGGTT TAGGCTATGA GACTTAATGC GGGGATTGTG GGACTTCCCA ATGTGGGTAA  | 81120 |
| ATCTACTTTA TTTTCATCTT TGACATCATC TAATGTTGAG ATCGCGAATT ATCCTTTTTG  | 81180 |
| TACCATTGAG CCAAATATAG GAATAGTAGA GATTCCCGAT GAAAGGCTTT TAAAAATCTC  | 81240 |
| AGAGTGCATT ATTCCACGCA AAATTATTCC TGCTGTTATG GAATTTGTGG ATATTGCAGG  | 81300 |



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| TCTTGTCAAA GGAGCATCAA CAGGCGAAGG GCTTGGCAAT AAATTTTTGG CTAATATTCG  | 81360 |
| CGAAGTTTCT CTTATTGTTC ATGTTGTAAG ATGTTTTGAA GAAAAAGAGG TTATTCATAT  | 81420 |
| TAATGACGAT ATTAATCCTG AGAAAGATAT AACTACAATT AATGTTGAGC TTTGTCTATC  | 81480 |
| TGATCTTGAA ACTGTTCAAA AAAGCCTTCA AAAACAAGAA AAAAATGCCA AAAGCACTGA  | 81540 |
| TAAGAAAATT AGTGAATCTT CTAAGGCAAT TGTTTTAATG TTAAAAAGAC TTGAAGACCA  | 81600 |
| TTTAAGCAAT ATGAATCCTG CTGTTGAGTT TAAATTTGAT GATTTTGAAT ACAACTTTAT  | 81660 |
| TAGATCATTA AATCTTTTGA CTTTTAAAAA AGTTTTGTAT GTTTGCAATG TTGATGAAAA  | 81720 |
| TTCACTTAGC GGCAATAAAT ATACAGATAT TGTAAAAAAT ATTGCCTTGA AAGAAGGAAA  | 81780 |
| TGATTTTTTA ATCTTATGTG CCAAATTTGA AGCTGAACTT GCCCAAATAA AGGATATATC  | 81840 |
| TTATAAAAAT GAAATGTTAA AATTATTTGG AATAAATGAT AGCGGTCTTG GCAATTTAAT  | 81900 |
| TAAAAAAGCC TATTATACTT TGGGCCTTAG AACCTATTTT ACAGCAGGTT TGCAAGAAGT  | 81960 |
| TAGAGCTTGG ACATTCAAGC AGGGCATGAG AGCACCCAAA GCTGCTGGAA TAATTCATAG  | 82020 |
| TGATTTTGAG AGAGGTTTTA TTAAAGCAGA AGTTTATTCT TGTGAGGATT TATTTAAATT  | 82080 |
| TCAAAGTGTT CAAAAATTAA AAGAGAAAGG ACTTGTTAGA ATTGAAGGCA AAGAATATAT  | 82140 |
| TGTAAGAGAT GGAGATGTAA TCTTTTTTAA ATTTAATGTG TAGATTTATT TTTATATTAT  | 82200 |
| GCGTGATTTA TTTTTTAATA ATGTAAAATT AATTAGTTTG TTTGTTTTTA ATGTTGTGAT  | 82260 |
| TTGTTTGCTT TATTTGGGTT TTTATGACGC AAGTTTTTTT TACTTTGTTT TAGCACTTCT  | 82320 |
| TTTGGTAAAT TTTTTTGTA TTTTTTTTTT TTTAAGATAT TTTTATTCTA TTTCTTTTAA   | 82380 |
| GGGATCTAAG ATTTATTATA AGGGTATTTT TTTAAGTTAT AATTTTGATT TTAGTGATAT  | 82440 |
| TATTTGTTTT GAAAAAGAT TATCAGACAA TGTTTTGATT TTGCAATTAA AAAATAAAAA   | 82500 |
| AAAGATTAAG GTTTGTTTTT GGACAGGCAA CGGTTCAAGT GAATTATTTA AAGAGCTTAA  | 82560 |
| AATTAAGAGA AAAGATCTGT TTGTCCCAAA ATTGGAAAAT TTTCCAATAA GATATTATTT  | 82620 |
| ATCTTGTA CT TATCTTTTTA TGTTTTTAGC TCGTATTATG ATTGCTTTAT TTGTTTATTA | 82680 |
| CATTTCATTA AGCAATATAT TTATTTTTTT ATTTATTTGT TTTATTGATA TTAAAGTTTT  | 82740 |
| GTTGGGGGAT TTTTCAGTTA TTAGCAATAT AGTGTTATTT TATGAGTTTA GGAAAGATTC  | 82800 |
| AATCTGTGAA AGAAAAATTT TTAAAAGTGA AATTTATTTT TATGAATTTT TTGAAAAAAT  | 82860 |
| TTTTATTGCC AGAGAATTTG AATTTAACAA TAAAAATTAT TTATGCTTTT TATACAAAGA  | 82920 |
| AAATCATCAG ACAAAAAAGG TATATATTTT GAATAAAAAA ATTTCTTATT CCATGCAAAA  | 82980 |
| GGTTTTTGAA TATATTAATC AAAACTATTG TACTAAATTA ACTTAAATCT TTGATTGACT  | 83040 |

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| ATATTTGAAT | TAGTTGATAT | ATTAAAGCTA | TTGTTTAATA | ATATTATTAA | GGAGTATAAC | 83100 |
| TTGAGAAAAA | ATGCATCTGC | ATTGAAGCGC | TCTCGTCAAA | ATTTAAAAAG | AAAGATTAGA | 83160 |
| AATGTAAGTG | TAAAAAGTGA | ATTAAAAACA | ATAGAAAAAC | GCTGTATCAA | CATGATAAAA | 83220 |
| GCGGGTAAGA | AAGACGAAGC | TATTGAATTT | TTTAAATTTG | TTGCAAAAAA | ACTAGACACT | 83280 |
| GCTGCTAGAA | AGCGAATAAT | TCATAAAAAT | AAGGCTGCTA | GAAAAAATC  | TCGTTTAAAT | 83340 |
| GTTTTGCTGT | TAAAGTAAGG | AAATTAGTTT | ATGTCTTTTT | CAAGAAGACC | AAAGGTTACT | 83400 |
| AAGTCAGACA | TTGTTGATCA | AATATCTTTG | AATATTAAAA | ATAATAATCT | GAAATTAGAA | 83460 |
| AAAAAATACA | TAAGACTTGT | AATAGATGCT | TTTTTTGAAG | AGCTTAAAG  | TAATCTTTGT | 83520 |
| TCGAATAATG | TTATTGAGTT | TAGATCTTTT | GGTACATTTG | AAGTTAGAAA | AAGAAAGGGA | 83580 |
| CGCTTAAATG | CTCGCAATCC | TCAAACAGGG | GAGTATGTTA | AGGTCCTAGA | TCATCACGTT | 83640 |
| GCGTATTTTC | GTCCAGGCAA | AGATTTGAAA | GAGAGAGTGT | GGGGTATCAA | AGGTTAAATG | 83700 |
| CCGGTTAATA | TCGTAGATTC | TTATAAATGG | GATTGTAAGC | TAGACTCCAG | TTTAACTTTT | 83760 |
| AGAGGAAAAT | TAAAATTTGA | AGGAACTTTG | TATCTTGATT | CTTCTTTTGA | AGGTGAAATA | 83820 |
| TCTTCAAAAG | GGGGTGTGCT | TTTTATTGGC | AAGAATAGTA | AGGTTATTAC | CAATGTGGTA | 83880 |
| ATTTGTGATA | CATTAATAGT | AGAAGGAATT | TTGAAGGGCA | ATGTAAATGC | TGCTAGTAAG | 83940 |
| GTTTATTTAA | ACAGCGGTTG | TAAAATATAT | GGGGATGTAA | AAACAAAAAA | AATATTTATT | 84000 |
| AATGATAATA | TAATTTTTGA | TGGTAAGTGT | GAAATGATAA | AGTCTAATGA | AATTGTAGAT | 84060 |
| TTATTTTCTT | TCACCGTTTC | ACAAATAAAA | GATACTTTGC | AATAGGGTCA | GTGTTTTTTA | 84120 |
| TTAATTAATA | ATAAGTAGAT | TTTTATAAAA | TCCTTTCTTA | AAAATTTAAT | TCGTAGAGGA | 84180 |
| AAATATGGAT | AAAAAAAATG | GTGGATTTGA | TTTAGAAAGT | GAAATAAGGC | GGTTGGATGT | 84240 |
| TTCTAAAGAG | TTTAAGATTG | AAGATAATTT | GAAAAAATAA | GTGGTTAAAG | TTGTTGCTAA | 84300 |
| AAAGGATTCT | GCATCTAGCG | TGACAAAATC | TGCAGATTTA | AGTGGCGTAA | AGGATTCAAA | 84360 |
| GCGGGTAATA | TTTTCTGATT | TTGATTATGA | TATTCCTTCT | TCAGGTTTAG | AAAATAATAT | 84420 |
| TAAAACTTTA | GAGCAAAGTA | ATATCATCAA | ATTTTTTAAT | GGTAAAGATT | ATGTAGAGAT | 84480 |
| TGAAAACTT  | TATGATAAGC | CAATTACAGA | GGTTAGAAAA | ATTGTTGAAG | GTCTTGGGAC | 84540 |
| CAATCATACT | ATTGCTGTAA | CAATGAAAAA | AACCGAATTA | ATATTTTTAT | TGGTGAAAAT | 84600 |
| ATTAAGTGAG | AATAATATTG | ATGTTTTATT | TACAGGTGTG | CTTGATGTGC | TTAGTGATGG | 84660 |
| TTATGGGTTT | TTGAGAACTG | CATCAAATTC | TTATCTTTCT | GGAGGCAATG | ATGTTTACGT | 84720 |
| TTCTCCCTCT | CAGATTAGAC | TTTTTAATTT | AAGGACAGGT | GATATTTTAT | ATGGCCAAAT | 84780 |
| TAGATCGCCT | AGAGATGGTG | AGAGATTTTT | TGCAATGGTT | AAAATTAAAT | CTATTAATGA | 84840 |

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| TCAAGATCCT ACGTTTGCTC AAAACAGAAT ACCTTTTGAT AATTAACTC CTCTTTATCC   | 84900 |
| CAATGTGAAA TTGAATCTTG AATATGAAAA TTGCAATATT TCTACAAGGC TTATTAATCT  | 84960 |
| TTTTTCACCT ATAGGTAAGG GGCAAAGGGC TTTAATAGTT TCTCCTCCAA AAGCGGGAAA  | 85020 |
| GACTACCCTG CTTCAAAAAA TAGCTAATGC AATACTACT AATTATTCAG ATGTTATTTT   | 85080 |
| AATGATACTA CTTATTGATG AGAGGCCAGA AGAAGTTACA GATATGATTC GTAGCGTTAA  | 85140 |
| AGGCGAAGTA ATTCATCTA ATTTTGATGA GCAGGCTAGT AGGCATGTTT AGGTAGCAGA   | 85200 |
| GATGGTTATT GAAAAGGCTA AAAGGCTTGT TGAAAACAAA AAAGATGTTG TTATTTTGCT  | 85260 |
| TGATTCTATT ACAAGGCTTG CAAGGGCATA TAATCAAACCT ATGCCAACTT CTGGTAAAAT | 85320 |
| TTTATCGGGT GGGGTAGATT CTAATGCTCT TCATAAGCCA AAGAGGTTTT TTGGGTCTGC  | 85380 |
| TAGAAATATA GAAGAAGGGG GAAGTTTAAC TATTATAGCT ACTGCTTTGG TTGATACTGG  | 85440 |
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| TCTTGATAGA AGTTTGCGCAG ACAGAAGACT TTTTCTGCT ATTAATATTA AAAAGTCAGG  | 85560 |
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| AAAAAGCAAA AACAATGAAA TTTTCTTGAA GACAATGAGC AATGGTAATT GAATAAATTG  | 85740 |
| ACATTATTTT TAATGTAAAT TAACTTTAT TGAAGATTAA GAGGAAGGTT TTATGAGAAA   | 85800 |
| AGATATACAT CCTAAAAATA ATTTAGTGGT ATTTAAAGAC GGATCAAATG GAGCAATGTT  | 85860 |
| TTTAACCAAG TCTACTTTGA ATTCAAAGGA AACTATTAAA TATATTGATG GAAAGGAATA  | 85920 |
| TCCATTGGTT ACTGTTGAGA TTACAAGCAA ATCCCATCCT TTTTATACCG GTCAGCAAAA  | 85980 |
| GTTTGTTGAT GCAGCAGGAA GAATTGATAA ATTTAATAAA AGGTATAAAA AGTCCTAAAA  | 86040 |
| ATTGGCTTTT TTGTATAAAA TTTTGAGAAA ATATTAATAA ATCTTTTTTA AGCTATATTC  | 86100 |
| TTTTCTATT AATTTTCTA GGTTGTTTTT TTCTTCTTCG TATATTGGT TATTTACTAA     | 86160 |
| AGATGCAATG CTGTTGTGTT GTCTTATTTG TGTTAGAATC TTTGTGGATA TTTCTTTAAT  | 86220 |
| ATCTTGCGGT GTAATTGTAA AGTAGGCATT TCGAATATCT TGTCTTAAGC TGTCACTAAT  | 86280 |
| ATTTAGCATT TTTCTTCTAT AGCTTTGCAA AGCTTCTGTA GCTTTAGTTT TTACATAGAT  | 86340 |
| GTTAGTTCCT ATTAAGCCTA TCAAATAGGT ATAAATCTCA TCATCTGTCA TTTTATTATT  | 86400 |
| AGCTAATTCT TCTAAAGATT TTTGAAAGC CTGGTAAGTT TTGGTGAAAT TGGGATCTCT   | 86460 |
| GTAGGACGCA AAAGAGAAGA TTCCATTGGC GATTGATGCG CTTGCTCCGT ATGCACCCCC  | 86520 |
| CATTACCCTT ATTTTTTCCC AAAAAATTCC ACTTCTTAAT ACATGCTCTA GAAAATTTGC  | 86580 |

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| TTTTGGATAA | TTCTCATCGT | TGATTTTGTA | ACTGGGGAAA | CATATAGCAT | TAAAAGCTAC | 86640 |
| TTTTGATTGG | ATAATTATTA | TTTCTCTTAA | TGCTTTGCTG | TTTGCGTCAA | GATTGAGCAA | 86700 |
| CCCGTTGTAA | TGATTGCTCT | CTTCTAGGCT | TTCTTTTAGA | TTGAAAAATT | CATTTTCTAA | 86760 |
| GTTTTTAAGA | ATGTCGTCAG | TATTTCCCAT | TATTAGTGCA | GATAGATTGT | TTTTTAAAT  | 86820 |
| TATTTTATTT | TTTAAATTGT | CTAATTTATT | TGCGATTTCT | TTTAAAGATT | CTGTATCGGT | 86880 |
| TTTTGCTTTT | TGCCAAAATT | CTCTGCCTGT | TATTCCATTT | TGCAATTCTT | TTAAATACTC | 86940 |
| ATTTAATTTT | AGTTTTGATT | TGGATCTTAA | CATTGCTAAA | AGATGTCCCT | TAGGGATTAA | 87000 |
| TAAGGATTTA | AAATCATTTT | TCAAGCTTAG | TGTTATTTCT | TTAATCTCT  | CATAATCATG | 87060 |
| AAAGTTAATA | TTAATTAAAA | TTTCTTTTAT | CAGCTCAAAT | GATTCTTTAA | CTTTATTGTT | 87120 |
| AAAAGACTTA | AAGCTAATGT | TAAATGAATT | TAAAATGTTT | CCATCGATAT | CCTCGTCGTA | 87180 |
| GCTTTCAGAT | ATATTTATTT | GCCCCAAAGT | ATTTTGGATT | TTATTGTTAA | TGTTTATGTA | 87240 |
| AGAATAATTT | TTTGTAGATA | AATCTTGAAG | AGCTCTTTTG | AATAAGATA  | GGTATATGTA | 87300 |
| ATCTTCTTTT | TCTAAAAAAT | CTAATTTAAA | AAATAAATTT | ACATTGAAAA | TATTGTTACT | 87360 |
| CTTAAACTTA | AAAGAATGTA | GATTTAGCTC | TTTTATTTC  | TTAAGATCCA | AACTTTTTTC | 87420 |
| TATTTGTTTT | GGCAAATCTT | CTATTTTTAG | TAAGGGAAGT | TTTGCTATAT | CTGCTTTAGA | 87480 |
| ATCTTTTTTA | TTTTGGTATT | TTTTAAACTG | ATTGTAGTCT | TTTTTAAATT | GTAAAAATTC | 87540 |
| TTCTGGATTT | TGCTTAATTT | CAATTTCCCT | TGCCATCAAT | TTTTTTTCAA | TTTCTTCTTC | 87600 |
| CATTTCTTTT | TCTGTATCGT | GTGATGGAAT | AAAGCTTATT | AATGTATAAT | GATTATTAAA | 87660 |
| TATTAGATAT | TTTTCAATTA | AATTTTCGAA | GTAATAAATT | CCTTTTTCCA | ATTTATTTGT | 87720 |
| AATTTCATTT | ATATAGTAGC | TTGTTTGTA  | TGTTTTGATT | GGATGTAGTC | CATTAGCCA  | 87780 |
| ACCTTTGAAA | CTTTTATCA  | TTAAAGCGAT | AGGAAAATTT | TGCCCTTTTT | CTTCTTTTAA | 87840 |
| AGCAAATTCG | TAGCCAAAAA | GAATTCCTTT | TATTAATTCT | TTTGAATTT  | TATTTTTTAC | 87900 |
| TAAATTTTTA | AGCTCACTGA | AAACTAGATT | TTTAAATTCT | TTTTCTTTGT | TTTCAACGAC | 87960 |
| ATTTTGGAGT | CCAAATGAGA | AAATAGATTC | TTTTAAATCT | GTATTGATTC | CGCTAATGTG | 88020 |
| GGCTATATCT | TCTCCTATCC | CACTTTTTAA | GATATTAATT | GTGAATGAAC | AAGAATCGTC | 88080 |
| TAAGAGTATT | TCTGAGAGAA | TCTCAAGACC | AATGCTGTCT | TCAATATTAT | TAATTTCTGT | 88140 |
| GCAAAGCCAA | TTTATTGTGT | ATACCCCAAG | AGAATTATCG | TTTTCTTTAG | GAATTTTATA | 88200 |
| TGTTAATTTT | TTCCCTTTT  | CCCATCTTTT | AACGTTTTCT | ATGTTAATAT | TGACATTGCT | 88260 |
| TTTTTCTTTT | TTATAAGGCC | TTATTATGTA | TTTTTCAATG | AAATTTAGAT | TTTTTTCAGT | 88320 |
| TTGAGTGTTG | CCGCATAAAA | ATATTTTGCA | GTTTTCAAGT | GTATAATATT | TTTTATAAAA | 88380 |

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| ATCTAAAAAA | CTTTCATAGG | TGAGATCAAT | AATATTTGTT | GGGATTCCGC | CTGAATCGTA  | 88440 |
| TTTATATGCA | CCCTCTTCAA | AAAGAGAACT | GCTTACTATT | TCATTTATTA | GAGAATTTTT  | 88500 |
| ATTTGAATAG | CTACCCTTCA | TTTCATTAAA | GACAATTCCA | GATACTTTAA | AATCTTTTGG  | 88560 |
| ATTTATATTG | TATCCTTCTT | GCATAAATGA | CTCTTTTTTA | AGCAATGGGT | TAAATATAGA  | 88620 |
| ATCGGCATAG | ATATTAAATA | AATTAAATA  | GTCTTTTTCA | ATTGTTGATG | CTGCTGGGTA  | 88680 |
| GATGGTTTTA | TCTGGGAATG | TCATTGCATT | TAAAAATGTG | TTTAGACTTC | CTTTTAATAG  | 88740 |
| GTAAAGAAAT | GGATCTTTTA | TTTTATATTT | GCTAGAGCCG | CAAAAAATTG | TGTGCTCTAA  | 88800 |
| AACATGTGCA | ACTCCAGTAT | TGTTTGAAGG | TATTGTCTTG | AAAGCTATGC | AAAATGCATT  | 88860 |
| TTCTTTAAAA | GAATCGCTTT | TTAAGTGAAA | TACTTCAAGA | CCACTCTCAT | GTTTAAATA   | 88920 |
| ATATCCTTCT | GCATCATGTT | CTTCTAAATA | AGTTTTTGAA | ATTAGTTTGA | AAATTTTTTT  | 88980 |
| CTTTTTCATT | TATGTCTTTA | ATCCTTATTT | TACAAATTGT | GCTATTTTAC | TTTCATTAAA  | 89040 |
| TTCAAATATG | TTTGGCAGCT | CCTCTGTGTC | ATCTAGTTTA | AATGTGTATT | CTGGGAATTT  | 89100 |
| AATAATAATT | TTTTTGTTTT | CAAAGTAAAT | TACTGCTTGT | TGTAAATCAA | ATAATAATTC  | 89160 |
| GTTAGGTAGA | ATTTTTTCTT | TAATTTTTTT | TATAAAAAAT | GGGAATGCCT | CATCTGTTTT  | 89220 |
| AATTATGTCG | TCAATATTAT | GAATATAATT | TCCTTTATCT | TGAATGTAAT | AACCTCTGTA  | 89280 |
| ATTTGTAATG | GGGCTATCAT | TAATTTCTTG | GGTTGCAATA | AGTATTATTG | TATAAATATT  | 89340 |
| GTGCCCATGG | TAAATTTTCT | AGTTTATTTT | TAAGCTGAAT | TTTTTATTCT | CAGGTTTAAG  | 89400 |
| CTCTTTACTA | ACAATGTCAA | GTCTTGCTAC | AATTTGGCTC | ACATATTCAT | TAATCTCATT  | 89460 |
| ATTCAATTCT | TCAAGATTTT | CTTTTTCTTT | TCCCTCAATT | ATTAATTTGG | GTATTCTAAT  | 89520 |
| ATTGTATTCA | TAAAATTGTG | AATCTTCTTT | TGAGCTTATT | GAATTTATTA | TTAAAGAATT  | 89580 |
| CATTTTGTTG | CTATTTAAGC | TAATATCTTT | AAAATTGATC | TTGGTTAATT | TTTTTGTTACA | 89640 |
| TCCGTAAAAA | ATCATTAATG | TAGATATTAA | CATAAAAGTT | GTTTTTATTG | TTCTTGATT   | 89700 |
| TAGCATGCGA | TGATTTCTCC | CTGCAATATT | TATCTAATC  | CTGTTATAAG | ATATTATATA  | 89760 |
| ATAACCTTAA | TATGAATTAA | TATTATTTGT | AATTTTGTTT | AAAAATTTTA | CTTAAGACAT  | 89820 |
| ATCTTAGGAG | ATAGGATGCT | TGATCTGAAA | TTTATTAGAG | ATAACCTTGA | TCTTGTTAAG  | 89880 |
| AGAAGTATTA | AAGCAAGAGG | CCTTGTTTTA | GATATTGATA | AGTTAATTTA | TCTTGATGAT  | 89940 |
| AAGAGAAAAA | AACTAATTAC | CAAAATTGGT | GAGCTTAATG | CAAAAAGAAA | TGAAAATTCT  | 90000 |
| TCTAAAATGC | AAGAAAATCT | TGATAAAGTT | TTAAAAATCT | CTTTAATAGA | AACCGGAAAG  | 90060 |
| ATTTTGAAAA | AACAGCTTAT | TGATCTAGAA | GAAGAGCTTG | AAAGAGTATC | TGTTGATTTT  | 90120 |

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| GACCTTGAAA | ATAAGAAAGT | GCCCAATATT | TTGTCACCTG | ATGTGCCTAT | TGGCAGTAGT | 90180 |
| GAAGAAGATA | ATTTTGAAAT | AAAAAGGGTT | GGAGTTGTTC | CACAGTTTGA | TTTTAAGCCA | 90240 |
| AAAGATCATT | TAGAGCTTGG | CAGAGATTTA | GATCTTCTAG | ATTTTGACAG | AGCACGTGAG | 90300 |
| ATTAGCGGGA | GTAAATTTTA | TTATCTTAAA | AATGAAGCAG | TTTTTTTAGA | AATTGCTCTT | 90360 |
| ATTAATTTCT | CTTTAAATAA | ATTAAGAGAT | AAAGGTTTTG | ATGTTTTTAT | TACTCCTGAT | 90420 |
| GTTGCAAGAG | AGTTTATAGT | TGATGGAATA | GGTTTTAATC | CTCGTGGCAA | CGAAAGCAAT | 90480 |
| ATTTATAAGA | TTGAAGATAC | AGATAAATAT | CTTGTGGGCA | CTTCTGAAAT | TACGCTTGGC | 90540 |
| GGTTATTATT | ATAATAAAAT | AATAGATCTC | ACTTTGCCAA | TAAGAATGGC | AGGGTTTTCA | 90600 |
| CATTGTTTTT | GAAAAGAAGC | TGGAGCATAT | GGTCAGCTTT | CAAAAGGTCT | TTATAGAGTT | 90660 |
| CATCAGTTTA | GCAAGGTGGA | GATGTTTTGT | TTTTGCAAAG | CAGAAGAATC | TGGAGTTATT | 90720 |
| CATGATGAAT | TTTTAAGTAT | TCAAGAGCAA | ATTTTTACTG | AGCTTGAAAT | TCCTTATAGG | 90780 |
| GTTTTAAATA | TTTGTTCTTT | TGATCTTGGT | TCTCCAGCTT | ATAAAAAATA | TGATATTGAA | 90840 |
| GCTTGATGTC | CTGGAAGAGA | CGGAAAAGGT | GGTTATGGGG | AGGTTACTTC | AACTTCAAAT | 90900 |
| TGTACAGATT | ATCAGTCAAG | AAGGCTTAAG | ATTAGATACA | AAGATCAAGA | TGGACAAAAT | 90960 |
| AAATTTGCAC | ACATGGTAAA | TGGAACAGCA | ATAGCTACAA | CAAGGGTTAT | TATTTCTATA | 91020 |
| CTTGAAAAC  | TTCAGGATCA | AAAGGGAGGA | GTTAGAATTC | CTAAAAGTTT | GGTTAAGTAT | 91080 |
| ACAGGCTTTG | ATTATATTCC | TTTTAAGAAT | TAGAATTTAG | TATTTTTTCT | GGCAATGTTT | 91140 |
| CTATAGCTTT | TAGCAATATT | TCATGCTTTT | TTAAGTTTTT | TGGAAATGGT | GCTGTAAAT  | 91200 |
| TTTGTCTAAA | TTTTTTAGCT | CCTTCTTTGG | AGAATACTAT | TCCCATAAGA | TGCTTGAATA | 91260 |
| ATATATTGAT | CGACAAATAA | TTTTCGTATT | CTTTAATGTA | TTCTACCATT | TGCATCAATA | 91320 |
| TATCTTTTCT | TGTAAGAATT | TCATCAGTTT | CGTTTAAAAA | TTCTCTTGAG | GCGTTTGCAA | 91380 |
| TAAAGTATGG | ATTTTCAAAC | GCACTTCTCC | CAATCATGAC | AGAATCAACA | AAAGATAGGT | 91440 |
| GTTTTTTAAT | TTGCTCTGAG | TTATTGATTC | CCCCATTTAT | CTCGATAAAC | AAATTTTTAT | 91500 |
| TCTCTTTTTT | CAGCTTATAT | ACAAATTCAT | GTCTTAATTT | TGGAATATTC | CTATTATTTT | 91560 |
| TAGGAGAAAA | TCCTTTTAAT | ATTGCAATCC | TTGCATGTAC | AATAAAATTT | TTGATACCAA | 91620 |
| AATCTGAGAT | TATTTTGACA | AAGTTTTTTA | CCTCAGAATA | ACTTTCATTT | TTGTAATCAC | 91680 |
| TAGATAAAGG | CCTTATACCC | AATCTATGTT | TAATTGAAAT | AGGCTTATTT | GTGTTTTCTT | 91740 |
| TCATCGTTTT | TAAAATTTCA | CCTACTTGAT | TAGCATTGCC | CATTAGACAA | GCTCCACAAT | 91800 |
| TTGCATTTTG | GATTTTTAGA | GATGGGCATC | CAACATTAAG | ATTGTATTCT | TCAAAATTAA | 91860 |
| AGTGTTTTTT | AAGAATTTGA | ATAGCTTTAA | GGGCATCATT | TTTGGAGTTT | GTTGCTATTT | 91920 |

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|------------|------------|------------|------------|------------|------------|-------|
| GAATTGCAAT | TGGAGATTCT | AAGGGGTTTT | GCTTTACAAT | TTTTTTTACA | TCACCCATAA | 91980 |
| TTATTGACTT | TGCAGAAATC | ATTGGGGTAT | ATAATGTAAC | TTTTTTTGAT | AAAAGTCTTA | 92040 |
| TTAAATATCT | GAAATGCTCG | TCTGTAATGT | TTACCATTGG | GGCTATTGAT | ATTTTTCGAT | 92100 |
| TCATTAACAT | TATATAATAT | GTTAGAATAA | ACGAGCTGAT | TTAACAATTA | TTTATTCTTT | 92160 |
| TTTAGGAGGA | ATTGTTATAT | GCCTGGAAGA | AAGGATTTAT | TTTTTTTAAT | ACTTTTCTG  | 92220 |
| TCATTTTCAA | TTATAATTC  | TTGCAGAGTA | AAAGGAATTG | TCATTAAAAA | TGGCAATTGT | 92280 |
| ATTAAGGCTA | AGGGCATAAG | CGAAAAAGAA | ATCCTTTTGG | CATCTGTAAG | TTGTAATTTG | 92340 |
| CATTATGACT | TGAATAGTGA | TTGATTAAT  | GACGGCATT  | AAGCAAATAA | TTTAAATTTA | 92400 |
| TCTAAGATTA | AAGCTTTTTT | ATTAAATATG | TATGTATATT | GCTTTAATTA | CCAATACAAT | 92460 |
| TGATATTGAA | AAAATGAAAA | CAGTAGAAAA | AAATATTATT | GAGTTTATA  | ATCAAGGCTT | 92520 |
| GCCAATTAGC | AGTAATAGAG | ATTTAAGATA | TTATTTAAAT | AGAATTAATG | ATACAAATTT | 92580 |
| TCAAATTC   | GCAGGTTCAA | TAAGAAATGC | AGAACTTTCT | GCTTTAGAAT | TTACGAGACA | 92640 |
| TTTTGGTTCC | AAATTAGATA | AAATTAAAAA | TGCAAATCAA | GAATACTTTA | AATTTTTTCT | 92700 |
| AGTTGATATA | ATCTTTGGCA | ACCCAAAGCT | TTATCCTAAA | GAAATATTAA | GGATTGCTTC | 92760 |
| AACTATTTAT | TATTATTTAG | ATTAATATGT | ATTAAGGGAA | GTTAGATGGA | GTTTTTATAT | 92820 |
| TCTGATGAAG | AGAATTATTT | AAAAGATAGA | TTTTTTGATT | TTTTTAATAT | GAATGTAGAT | 92880 |
| AAAGATAAAT | ATACAAGTAT | TGGAATTTGT | GGTGGTCGAA | GTATAGTTAA | CTTTTTAAGC | 92940 |
| GTTTTTCTTA | AACAAAATTT | TTCTTTTAGA | AGATCGCATT | TTTTTTTAGT | TGATGAACGG | 93000 |
| TGTGTTCCAT | TAAATGATGA | GAATAGTAAT | TATAATCTTT | TAAATAAAAA | TTTTTTTTCT | 93060 |
| AAAATGGTTG | ATAAAAATTT | AATAAGCATT | TCCAAATTTT | ATGCTTTTGT | TTATAGCGAA | 93120 |
| ATAGACGAAG | CCACAGCTAT | TCATGACTAT | AATATTGAAT | TTAATTCTAG | GTTTAATATT | 93180 |
| TTTGATTTTA | TTATAGTTTC | TGTTGGTGAG | GATGGCCACA | TAGCATCGCT | TTTTCTTCA  | 93240 |
| AGAAAATTGT | TGTTTTCAGA | TGTAGAAGGT | TATCAGTATG | AATACAATTC | TCCCAAATTC | 93300 |
| CCAAGCAAAA | GAATAAGCTT | AACGCCGAAA | TCTTTGTTTG | GTTCAAAAGC | TGTTGTTTTG | 93360 |
| TTATTTATGG | GTGTTGATAA | AAAGTGCTG  | TTAGAAAATT | TTTTAGCTTC | TAATAGTTCT | 93420 |
| ATTAATGAAT | GTCCAGCCAG | ACTTCTCAAA | GAGCATCCCA | ATTTACTAGT | TCTTACAAAC | 93480 |
| ATTAAAAGAG | ATGAAAGTTA | TGCAGGATCC | TAGGCTTTCC | AAGTATAAAA | ATGCTAAAAA | 93540 |
| TTTAAGCAAA | AAAACCGTTG | AAGAAATTGA | TACTTTAAGT | TTAAATAAAA | ATTTTCCGA  | 93600 |
| TTCAGAGATT | CAAGGCTCTA | TGCTTAGATC | TTGGATAAGC | CTTATTAAAG | GAAATAAAAA | 93660 |

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|-------------|------------|------------|------------|------------|------------|-------|
| TAAAACACCT  | GTCGAGCCTA | AATCCAACAA | TATTAATGAG | TTAAAGCCAG | GGTTTATTCG | 93720 |
| CAAAGAGAGT  | AAGGTCACAA | AGATTGCAAA | ATATTTTTTG | GCTATTGGAC | TTGAAAAATC | 93780 |
| TGCTAAGATT  | ATGTCTGAGC | TTGATGATTC | GGATATAATC | TTAATTACCA | GAGAAATTC  | 93840 |
| AAAGATTAGC  | TATATTGCTC | CAGAAGAAAG | AAGAGCATAT | TATTAAAGAA | TTTGAAGAGT | 93900 |
| TACTAAGAAA  | TCAAAAAAGG | TATGTTAAGG | TTGATGATAA | CTTTGCTTAT | GAGTTATTAA | 93960 |
| ATAAAACGTT  | AGGAAAATCT | AAGGCAAAAT | CAATTTATAA | AAAAGTTACT | GGTAATGATA | 94020 |
| TTTTTATTC   | TTTTGATTAT | TTGTCTCAA  | TTGAGCATGA | ACAACTTTGG | GCATTAATTA | 94080 |
| AGGATGAGAA  | TATTTAAACG | CTTGTTATAT | TATATAATTA | TTTAAATAAA | GATCAAAAAA | 94140 |
| AATATGTTTT  | TTCAATGCTA | GAAGAAGAAG | ATAGAAGAAA | ATTTGTAAAA | GATCTTGTC  | 94200 |
| AACCAAGGCA  | ATTGAGCATG | GAGACAATAG | AGGCAATTC  | AAATAAGCTT | AAGGATAGAT | 94260 |
| TTAAGATGCA  | GGGGAATCTT | AAGACAGATA | AACTTGATGG | ATCTAAGATA | CTTGTTGATA | 94320 |
| TTTTAAGCTA  | TATGGATTTT | AATGAAGAGA | AAAATTTGCT | TAATAATATT | AATATGCGGG | 94380 |
| ATTTAAATCC  | TGTTGTGGAC | AGTGAAATTC | GAGAAAAAAT | ATTTGATATC | AATGTAATAT | 94440 |
| TGAGAATAAT  | GGATAATGAC | CTTCATAATA | TTTTAAGAGA | GTTTACAGAC | AAAGAGATTG | 94500 |
| CAATTATTAT  | TAAGGATAAA | GCTGATGAGG | TTAGAGATAA | AATGCTTTCA | AATGTTTCAA | 94560 |
| AAAGGCGCAA  | AGAAATCATT | TTAGACGAAG | AAGCTTTTTT | AGGAAAAATA | AGTAAAAAAG | 94620 |
| ATTTAAAAAC  | TATGACAACA | GCTTTTGTTA | ATTATATTAA | AAATTTAACT | TTAAAAGGCG | 94680 |
| ATTTAATAAT  | ATATAGAAAA | AATGAGGAAT | TTATTTAATG | ACACTTAATA | AGTTGCGTAA | 94740 |
| AAAATATATT  | GATTTTTTTA | AATCAAAAAA | ACATTTTGAA | ATAATGGGGA | AATCATTAGT | 94800 |
| TCCTGAAAAAT | GATCCTACAG | TTCTTTTTTA | TACAGCTGGC | ATGCAGCCCC | TTATCCCGTA | 94860 |
| TCTTCTTGGA  | GAAGTGCATC | CATCAGGAGA | TATGCTTGTT | AATGTTCAAA | AGTGCCTAAG | 94920 |
| AACAGGCGAC  | ATTGATGAGG | TTGGAGATTT | AAGCCATTTA | ACTTTTTTTG | AAATGCTTGG | 94980 |
| AAATTGGTCT  | CTTGGAGCTT | ATTTCAAAGA | GTATTCTGTA | AAGTGTAGTT | TTGAATTTTT | 95040 |
| GACATCTTCT  | GATTATTTAA | ATATTCCAAA | AGACAGTCTT | TATGTGAGCG | TATTTGAAGG | 95100 |
| CGATCAAGAG  | ATTCCGCGCG | ATACAGAGAC | TGCTAAAGTT | TGGGAAAGCT | TGGGTATTTT | 95160 |
| CAAAGATAGA  | ATACATTATC | TTTCTAAGGA | TCATAATTTT | TGGGGGCCTG | TTGGATCTAA | 95220 |
| AGGGCCTTGT  | GGGCCAGATA | CTGAAATATA | TGTGGATACT | GGAAAGTCTA | AGTGTCTCT  | 95280 |
| TGACTGTAAT  | ATTACGTGTT | CTTGTGGTAA | GTATTTTGAA | ATTTGGAATA | ATGTTTTTAT | 95340 |
| GCAATACAAT  | AAAGATGAAA | ATGGTAATTA | CATAGAATTG | GGTCGAAAAT | GCGTTGATAC | 95400 |
| GGGAATGGGA  | CTTGAGAGGA | CAATTGCTTT | TTTGCAGGGC | AAATCTTCAG | TTTATGATAC | 95460 |



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| AGATGCATTC | ATGCCTATAA | TAAAGAGAAT | AGAATATATT | TCTGGTAAAA | TTTATGGACA | 95520 |
| AAAAGAAGAT | GATGATAGAT | GTATTAGAAT | AATTTCTGAT | CATGTTAAAG | CTGCTTGCTT | 95580 |
| TATTCTTGCT | GATAGTTCTG | TTGTTTTTCC | CTCCAATTTG | GGGCAAGGAT | ATGTTTTAAG | 95640 |
| AAGACTAATA | AGGCGATCTA | TCAGATATGC | AAAGAACTT  | GGGATAAAAT | CCCATTTTTT | 95700 |
| AGCTGATCTT | GTTGATTCTG | TAGAAGCTAT | TTATAGATCT | TTTTATAATG | AGCTAACAGA | 95760 |
| AAAAAAAGAT | TTTATCAAAA | AGGAATTAAG | CAAAGAAGAA | GAAAAGTTTT | TTAAAACTTT | 95820 |
| ATCTCAAGGA | GAGCAAGAAT | TTATTAAAAT | AACAAGAAAT | TTGCCTTCCA | AGACTATTCC | 95880 |
| TGGTGATATT | GCTTTTAAAC | TATACGATAC | TTATGCTTTT | CCATACGAAG | TAACAGAAGA | 95940 |
| GCTTGCTATT | GAATATGGCT | TTAATGTTGA | TAAGTTGGGT | TTTAATGAGC | ATTTTAAAAA | 96000 |
| GCATCAAAAA | ACTTCAAAGA | AAGGGGGTGA | CAAAGTTTTT | AAAGGAGGGC | TTGCCGATTA | 96060 |
| TACTTATGAG | ACCACTAAAC | TACATACAGC | GACCCATTTA | CTGCATAAGG | CACTTCAATT | 96120 |
| AGTACTAGGC | GATCATGTTA | GACAAAAAGG | AAGCAATATT | ACTGCTGAGC | GATTAAGGTT | 96180 |
| TGATTTTGTT | CATTCTGAAA | AGATGACGGA | TGATGAGATA | AAAAAAGTTG | AAGAGATTGT | 96240 |
| TAATTTACAG | ATAAAAAATT | CTTTGTCTGT | AAAAAAAATT | ATAATGGAAT | TAAGTGAAGC | 96300 |
| TCGAGAAAAA | GGTGCTATGG | CTCTTTTTTG | AGAAAAATAT | GACGATTTGG | TGAGCGTTTA | 96360 |
| TGAGATAGAT | GGATTTTCGC | TTGAAGTTTG | TGGAGGCCCT | CATGTAGAGA | ATACCAATGA | 96420 |
| ACTTGGTACT | TTTAAATAC  | AAAAAGAACA | ATCCTCATCT | TCAGGTATAA | GAAGAATAAA | 96480 |
| AGCTATTTTG | ATTGATGAGT | AAATTACTTA | TTATTTGTTG | ATTTGTTTTA | ATAGGAGGCT | 96540 |
| TTATGATAAA | ATCAATTTTA | GATTATTTAT | TAACTTTGCA | TCCTGTATTA | TTGGGACTTT | 96600 |
| TAGGTTCTAC | TTTCACTTGG | TTTACTACAG | CTTTTGAGC  | AGCAGCAGTT | TTTTTCTTTA | 96660 |
| GAAAGGTAGA | TAATAAAATA | ATGGACGCTA | TGCTTGCTTT | TTCAGCTGGC | ATTATGATAG | 96720 |
| CGGCCAGTTT | TTTTTCGCTT | ATTCAGCCTG | CTATAGAAAG | AGCTGAAGAG | CTTGATACA  | 96780 |
| TTACTTGGGT | GCCGGCTGTT | TTTGGATTTC | TTGTGGGG   | ATTTTTTATA | TATATTGTAG | 96840 |
| ATGTATTTGT | TCCAGATCTG | GATAAACTTA | CTTTTATTGA | TGAAGACTTA | ACTAAACATG | 96900 |
| GTAAAAAGA  | TTTTTTACTC | TTTACTGCTG | TTACTTTACA | TAATTTTCCA | GAAGGATTGG | 96960 |
| CTGTTGGAGT | TGCTTTTGGA | GCCTTGGCGT | CTAATCCAGA | TATTCAAAC  | TTAGTTGGGG | 97020 |
| CTATGCTTCT | TACGCTTGGT | ATTGGTATTC | AAAATATTCC | CGAAGGAGCA | GCTATTTCTC | 97080 |
| TGCCTTTAAG | AAGAGGTAAT | GTTGCTTTGG | CAAAATGCTT | TAACATGGC  | CAAATGTCAG | 97140 |
| GATTGGTAGA | AATTGTGGGG | GGGCTTATGG | GTGCTTATGC | GGTTTATTCT | TTTACTCGAA | 97200 |

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| TTTTACCTTT  | TGCTTTGGCT  | TTTTCTGCAG | GAGCTATGAT  | TTATGTGTCA | ATTGAACAAT | 97260 |
| TAATACCTGA  | AGCTAAGAGA  | AAAGACATTG | ACAATAAAGT  | GCCAAGTATA | TTTGGTGTTA | 97320 |
| TTGGTTTTAC  | ATTAATGATG  | TTTCTCGATG | TTTCACTAGG  | TTAAAATTAT | CCAAATTTTC | 97380 |
| CGCTGATATA  | TTCTTCAGTT  | TTAGTATTTT | TAGGATTGAA  | GAATAATTCA | TCAGTTGAAC | 97440 |
| TTTCTTCTTC  | AATGCATCCA  | TTAAGGAAAA | ATGCGGTTCT  | ATCAGATATT | CTTCCGGCTT | 97500 |
| GTTGCATGTT  | GTGAGTTACA  | ATGATTATTG | TGTAAC TTTC | TTTTAAGTTT | ATTATTAACT | 97560 |
| CTTCAATTTT  | GCCTGTTGAT  | ATTGGATCGA | GAGCAGAGGT  | AGGTTCGTCC | ATCAGTATTA | 97620 |
| CATTTGGCTC  | TATTGCGAGA  | GTTCTTGCAA | TACAGAGCCT  | TTGCTGCTGG | CCTCCTGAGA | 97680 |
| GACTTAAGGC  | GTTTGTATGA  | AGTTTGTCTT | TGACCTCATT  | CCAGAGTGCA | GATTTTTTTA | 97740 |
| GTGATTGCTC  | TACTATTTTCG | TCTAGTTTTT | TTTTATCTTT  | TGTTCCATGT | ATTTTTGGAC | 97800 |
| CATAGCTTAT  | ATTATCATAG  | ATAGACATTA | AAAATGGGTT  | AGGGGTTTGG | AATACCATTC | 97860 |
| CTATTTTTCT  | TCTAAGCTCC  | AGGATATCGA | AATTATTTGA  | ATAAATGTTT | TTTCCCTCAT | 97920 |
| ATATTACATT  | GCCTTCTATT  | TTAATGCCTT | CAACAAGATC  | GTTCAATCTG | TTGAGAGTTC | 97980 |
| TTAAGAATGT  | TGATTTACCA  | CAGCCAGATG | GGCCTATTAA  | GGCGGTAATA | CTATTTTTCA | 98040 |
| GTATTTTCAT  | GTTTATTTTA  | TTTAAAGCTT | TAAAGTCTGT  | ATAAAATAGA | TTCAGATTTT | 98100 |
| CCGTTTCTAT  | TATAACTTCA  | TTTTTTGGTG | TATCTTTTTT  | TTTTATCACT | TATTTAATCC | 98160 |
| TATATAATTT  | GTTTATTAAA  | AATTTTGATG | TTAAATTTAT  | TATGAGTACC | ATAATAACAA | 98220 |
| GTATTGAGGC  | TGTTCCAAAT  | CCTTTGTCCA | GGTGTCCCTC  | TTGAAATAAC | ATTAGTAAGT | 98280 |
| GTACAGTTAA  | TGTTCTTGAA  | GGTTCATTTA | AATTTGTTGC  | AAGTCCCAAG | TTTGTTCCCA | 98340 |
| TTGTAAAAAG  | CAATACAGCT  | GTTTCTCCCA | AAGCTCTTCC  | TATTGCAAGA | ACTATTCTCG | 98400 |
| TTAGTATTCC  | GGGAATAGCT  | GCTGGAACCA | TAACTTTAAT  | TATAGTTTCT | GTTTTATTTG | 98460 |
| CCCCTAAGGC  | GAATGAAGCG  | TATTTGTATG | ATTTTG GGAT | TGTTTTAAAT | GCTTCTTCGG | 98520 |
| TTGTTTTAAC  | AATCATTTGGT | AATATCATTA | GGGAGCTTGT  | TATTGCTCCT | GAGAGTATTC | 98580 |
| CTATTCCAAG  | AATTGGCACA  | AAAAAAATCA | GTCCAAAAAG  | TCCAAAAATT | ATTGCAGGAA | 98640 |
| TTGAAGAAAAG | AATGTCAACG  | CTCATAGACA | GTATTTTGTA  | AAATATTTTA | CTAGAAGTAT | 98700 |
| ATTCGGCAAG  | CATTATGCCA  | GTTCTTATTC | CAATGCATAT  | TGAAATAGCG | GTTGTTAATA | 98760 |
| GTATTACATA  | AAAAGTATTT  | AATATTAAAT | AAGAAATTCC  | ACCATATGCG | CCAGAATCTC | 98820 |
| TTGGAATAGA  | TAATATGAAA  | TTTAAATTTA | AAGGACTACT  | TTTATCAATA | TAATGCATTT | 98880 |
| TAATAAAAGG  | TGCTTTAAAA  | TTTTGAAAAT | AATGCCAAGG  | CACAATTGCT | AGTGCGCCTT | 98940 |
| CTGTTTTTTC  | TATAGTTTGT  | ATTATATTTT | CTTCTTGATC  | AAGATATTTT | ATTATTTTTA | 99000 |

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|------------|-------------|-------------|-------------|-------------|------------|--------|
| ATTTAATATC | TTTTGATATT  | AAATTGACCC  | ATTTTTCTTT  | GCCTTTAATA  | AGTTTTTCAA | 99060  |
| CTTCATCAAC | ACCTAATGTA  | TTGATTATTT  | CATTTTCATT  | TTTTGTAA    | GTTTTTTTAC | 99120  |
| TTATTAGGAC | AGACATAGTT  | TTTATTTTTA  | AAGCCTTAAT  | ATTGGGATAT  | AATTTAAAAT | 99180  |
| CTAGGGATTG | AAATTCCTTT  | TTTGTTAAAT  | AGCCTACAGA  | GCCTATTGTG  | CTGTTTATGG | 99240  |
| TTTGAAGTAT | TTTTTTGGTA  | GATGGTTTGA  | TTTTTATGTA  | TCTTTTATTA  | AATACATTGT | 99300  |
| TTTTGATTAG | TGTTTTTAGA  | ATAGCTTTGT  | TAGATATGCT  | GTCAATTGAA  | CTTGCAATAG | 99360  |
| GTATAATGTC | AATTCCTGA   | TCTGAAATGC  | TTCCCCAGTG  | TGAAATTTTA  | TTATTATATA | 99420  |
| TGTTGTGAAT | GTCTTCTATT  | GAGATTTTGT  | CTGTGTTGAT  | ATTTTTGTTA  | ACAATAAAAG | 99480  |
| CAATTTGTAT | TTCTTTGCCG  | TCTTCTGTTT  | TAAATGGCAC  | AAAGCTTTGA  | GTTTTGTTTA | 99540  |
| AAAATAAAGT | TTGTTTTTTT  | TTGAAATAAA  | ATAAAGAGTT  | GTACAATACA  | TATGCTATTA | 99600  |
| GAAAAATTAA | TACCGCTGTT  | AAAAAATATG  | CAATAGAATT  | GATTATAAAG  | AAATAGAACT | 99660  |
| TATTAATTAA | TTTATTGATT  | TGAGTTTTAG  | TCACTTTTTC  | TTTAACCCCTT | TATTGGAAGA | 99720  |
| TAGTATAAAA | TTTTTTGAGTA | AATTTGTAAT  | TATTGAAAAAT | AGCAATAATA  | CTAGAGCTGT | 99780  |
| AGAAAAGAGA | GCTTCTCTGT  | GAACACCCGA  | GGCGTATCCC  | ATGTCCATAG  | GCAATGTTTA | 99840  |
| CAGTTAGTGT | TCTAATAGGA  | GAAAATATGT  | TTTTTATAAA  | AAGAGGAGAG  | CCTCCTCCGA | 99900  |
| CCATTAATAC | TGCCACGGTT  | TCTCCAATAG  | CTCTTCCTAT  | TGCCAATATT  | GTTCTGCTA  | 99960  |
| AAATACCTCG | ACTAGCCGAT  | GGTATTATTA  | TATTATATAT  | TGTTTGCCAG  | TCTGTTGCTG | 100020 |
| CTAATGCAAG | AGATGCAAAT  | TTATATGATT  | TTGGAACGGC  | TTTGAGCGAT  | GAATAACAAA | 100080 |
| CGCTAATTAT | TGTGGGGATT  | ATCATTATGC  | TTAATATGAG  | TGATGAGCTT  | ATTAAATTGT | 100140 |
| ATCCCAAATT | GTCTTCTCTT  | TGAAAAATGT  | TTTTTACTAA  | AGCTGCAATA  | AATGTGCTTC | 100200 |
| CAAAAAATCC | GTAAACTACA  | CTAGGGATTG  | CTGCTAAAAG  | CTCTATTACT  | GTTTGTAAAA | 100260 |
| ATTGTCTATA | AAATCCTTTT  | GCTTTTTTCAA | GTAAATATAT  | CGCAAATCCC  | AATCCAATTG | 100320 |
| GTAAAGCAAT | TAAAATAGAA  | AAAAGTGTAG  | TTAAAAAGGA  | ATTAATAATG  | AATGCCAAAA | 100380 |
| TACCATAAGA | TTTTTGTA    | TTGCTAGTAG  | GATCCCAATT  | TGTGCTGAAT  | AAAAAGTTTA | 100440 |
| AAATTTTAAT | TTTGTTATTA  | AGAAATGGCA  | TTATTCCAGT  | TTTTAATATA  | AACAAACCCA | 100500 |
| AAAACAATAT | TGATAGGGAG  | CTGATTATTG  | CAGATATAAG  | AATAAAAGAT  | TTGAAAATAA | 100560 |
| TTTCAATTAT | TTTTCTTTTT  | GTCTTTAAGC  | TCAGATGCAT  | TTTTTAAAAG  | AATCCCTTAA | 100620 |
| AGCTCATGCC | AATGTTAAAT  | TGTATTACTT  | GACTTGATCT  | TAAGTCAAGT  | TTTTTTTTCT | 100680 |
| TTAATTTAAT | TATGTTTTTA  | TCCCTAAAAA  | GCCTTGTTCT  | TCAACAATAT  | CTTGTCAGT  | 100740 |

|             |            |             |             |            |             |        |
|-------------|------------|-------------|-------------|------------|-------------|--------|
| TGAGCTTGTC  | ATGAAATCAA | TAAATTGAGT  | TACGCTTTTA  | TCCTCGTATT | TGTTATTTGT  | 100800 |
| AACTATTATT  | AAATTTCTTT | TAATGGTGTA  | TTTATTGCTA  | TTTATTGTTT | CTTTTGTAGG  | 100860 |
| ATATGTGCTG  | TTAACAGAAA | GAATATTCAA  | ACCCTTTTCT  | ATTGAATTTT | TTGCGTATCC  | 100920 |
| AAGACCTATA  | TATCCTATTG | AGTGGGGAGT  | AAGGCTTGTT  | TTTTCAATTA | CCTCTCCATT  | 100980 |
| AGATTTTACC  | ACTATTCCGT | CTTGTCTAAA  | TTGAGCTTCT  | TCGTGAGTTT | TGAATATTTT  | 101040 |
| ATTAAGAAGT  | AGGTCTTTTA | TAGACGAATA  | AGAACCAGAA  | GAAGAGTCTC | GATTGATAAA  | 101100 |
| GTTGATTTTA  | GCATCAGGAC | CTCCCACTTG  | TTTCCAATTT  | TGAATTTCTC | CATTTAGTAT  | 101160 |
| TTTAGCTAGA  | TTTTCTTCTG | TAATATTTGT  | AATTTTTATT  | TCAGGGCTTG | TAATGAAAAT  | 101220 |
| TAAAGCATCA  | TAAGCAAATA | CAGTTTCTTT  | TGCCCCTTGT  | TCAATTTCTT | CTTTTGTAA   | 101280 |
| ATCTCTTGAT  | GATATTGCTA | TTTTATATAT  | TTTGTTAAAT  | AGCCCGTTTA | TGCCAACACT  | 101340 |
| ACTTCCTTGT  | GCATCGTATG | TTACTTTAGT  | ATTATTGTTT  | ATTTTATTAT | ATCTTAAAAT  | 101400 |
| CATTTCTGCT  | AGTATTGGGC | TTACAGTTGT  | AGATCCTCCA  | ATTGATACAA | TTTTTTTCATT | 101460 |
| GTCTTGATTT  | TTACAGTTGT | ATAATAAACT  | TGTTGATAGC  | ATAAAAATTA | AGATAATAAC  | 101520 |
| TTTTTTTCATC | AAGCAAACCT | CTTTGTTTAA  | GTATATAATA  | GCATTAATTT | AAAATAAGTC  | 101580 |
| AATTACAAAAT | TAACTTTATT | GATTAAGTTA  | TAATTGAGGA  | ATAATAGCAA | ATATTTTAAT  | 101640 |
| TTTTTTGGTAT | AAATTACTAC | TAGATTTATA  | TGTTAAGTTT  | TGCGAGGTAT | TTAAATGGCA  | 101700 |
| GTAGTGAAAT  | CTAGTGAGAT | TGAAAAAGGT  | TCTTTTTTTAC | TTATCAAAGG | GGCTCCCCAT  | 101760 |
| ATTGTTCTTG  | AAAGAGAATT | CTCAAAAACA  | GGTAGGGGAG  | GGGCGATAGT | AAGGTAAAG   | 101820 |
| CTTAAGAACT  | TAAAAAACAA | ATTTGTCTATT | AGAGAACTT   | TAAAAGGGGC | AGATAACGCA  | 101880 |
| GAAGCTATTG  | AAATTTATGA | AGTTAGTGCT  | CAGTATTTAT  | ACAAAGATAA | AGACGTTTTG  | 101940 |
| GTTTTTATGG  | ATTTAGAAAC | TTATGATCAA  | GTTAGTTTGG  | ACTTAAAAGA | AAGTGCTAAT  | 102000 |
| TTACAAGATA  | AAGTGCCTTT | TTTGCAGGAG  | TCTGAAATCT  | ATTCTCTTGT | AACTTTTGAC  | 102060 |
| AATGTGGTTA  | TTGATATTAA | GCTGGCTCCA  | AAGATTGCTT  | TTGAAGTTGT | AGAAGTTGAG  | 102120 |
| GCGGCTGTTA  | AAGGTGATAC | TGTAACAAAT  | GCAATGAAAA  | ATATTACTCT | TAATACAGGG  | 102180 |
| CTTGATAGTAA | AAGCTCCACT | TTTTATTAAAC | GTTGGAGATA  | AGGTTTTAAT | TAATTCTGAA  | 102240 |
| ACTAAAGAGT  | ATGCAGAGCG | GATTAAAAAT  | TAAATTAATA  | TTGTTTTTTT | GTTGTTTTGC  | 102300 |
| TTGTTCTTGC  | GACATAAATT | ATCCGGAGAT  | AAAAGAGCTT  | GATTATAAGA | TAAATTATTA  | 102360 |
| TTTTACTGAA  | AATCGCTTAG | ATTACTCTAT  | GAGTTTTGAT  | TTTGCAATTA | AAGTTATAAA  | 102420 |
| TTCAAAAGAT  | GTTTTTAAAT | TATCAATAGA  | GAATAAGAAC  | ACTAATGAGT | TTATTCAAGT  | 102480 |
| GATTAATAAT  | AATTATAGCT | CTTTTTTTTAT | TGATTCTAGC  | CTTGAAAGG  | ATATTCTATA  | 102540 |

TTGTAAGGAT TTGAGGTTTA ATTTTTTTGA TAAAACTTTT GAAGATTTTA CCTCATGTGT 102600  
TCGTCTTTTT GATAAGGGCA TGAGAGTATA CAATAGAGAG CTTGTTATTT CTTTGGGTAT 102660  
GTCAAAATAT GATTTAGATG ATGTTACAA TTATGTATAT AAGCTAAAG ATATGGAAAT 102720  
GTTAAACAAG TTAAGCAATT CCAAAGTATT TTTTGTAAA ACTTATAAAG ACAAACTACA 102780  
TCCGGTCTCT TCAGTTGTTA GAATTGATTC AATAGATATT CTAGAGATTG ATAAAGCATT 102840  
TGATAATTAC ATAAGTTTTT ATTATGTCGA AAAAAATTCA AATCTTTTTT TTAAAGTTGG 102900  
CTGAAAAGAT CAAAATGGGC CCACCAGGAC TTGAACCTGG GACCTACCGA TTATGAGTCG 102960  
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TCTTGTTTTG TTATTTTTAT TAAATCATT TTTAAGTTTA ATATTTTTTG GTTTATTTTT 103200  
TCTATTTTTT GAATTATTGA GCTGATTGCA TTGGTTTTGG CTGTCATTTT ATCTTTTTTT 103260  
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ACATTGATTT CGTTTTTTAT TGTATTCTTT TTGTATATTT TTTCTTTTTT GCTTGTAGAT 103380  
ATTATTTCTT TTATTTCTTC TTTTATGTTT TTTATATTTG TTTTGATTTC ATTTATTATT 103440  
TTAAATTCTT TAACAATTAC ATTGTTTAAC TTTTATTTA ATGAAAATTC ATTCATTATG 103500  
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ATTCTTTGTA AATAATTTTT TGTTTTATGA TCACTTGCTA ATTCTATTTT TTTATATTTT 103680  
TCAAGTTTCA ATTTAGAAAA ATTCATATTG TATTTTGATA TTAATCTAG ATTTTGAGGA 103740  
TAAATTTTCA TTATTGTTTT AGCAATTTCT TTAAGGTTTT TTTTATATGA TTTACTAGTA 103800  
GATTTATATT CTTTTTTAAG AATATAAATT TTTTGTTTA AATTTTTTAA TATGTTTTCA 103860  
TTTTCTTCTG ATTTGCTTAA ATTGCTTTTC ATTTGATACA ATTCTTTTC TACTAATTTT 103920  
AAATTGGGAT AGTGGTTTAA ATTTTTTAAT TCTACTATAT TATTATTTTT TAATATTTTT 103980  
CCAAGCTCAA TTAAATTTTT GTCTTTTTCT ATCTTTAACA AGTTGATTTT TGATTTGATT 104040  
TTTTTCATCA TGGGAACCTT GGTTTTATTT TATGCTCTGT CAACTTTTTT TTCAAGTTCA 104100  
AATTTAGATA TTTTGTAATA AATTTTTCGT CCATGAGGAC AATGTTTGAT TTCTAGTTTA 104160  
AAAAATTCAT TTATTAAAAA TTTACTAAAT TCAGCGCTTA GCATGTCATT TCTTTTGACA 104220  
GCCTTTCTAC AGGCAATAGT TGCGTATAAG TCAGATTCAA GAGAATTTAT TGTCCTACTT 104280

|            |             |             |             |             |             |        |
|------------|-------------|-------------|-------------|-------------|-------------|--------|
| CTTCTTGATT | GAAAAAAGTT  | AATAAGAGTA  | TTTTTCATATT | GACTACAAAT  | ATTAGGAATA  | 104340 |
| GATTCAAGTT | GATATTTTTT  | AGGGCCTATT  | TTAGAGATTA  | TAATGTCCAT  | TTGTTTGTAT  | 104400 |
| TCTTCAATCT | CACTATCTAT  | AATTTCTTCT  | ATGTTTTTAT  | CAACTACTGT  | GAATTC AATT | 104460 |
| GGTACTAGAA | GTTTTTGAAC  | ATTTTTTTTT  | GAATTTCTAA  | GTTTTTCATA  | TATTATTTTT  | 104520 |
| TCGTGAACTG | CGTGTGGTC   | TATGAAGTAA  | ATTTCAATTA  | TTTTTTC AAC | GATTAAAAAT  | 104580 |
| TCAGAGAATA | TTTGTCCAAT  | ATAGTTAAAT  | TTTATTTCTT  | CTTTTTCAAT  | TTTATTTGGA  | 104640 |
| GGTTCTTCAA | ATTCTAAAAA  | ATTGTCAGAG  | AAAATGTTTC  | CAATGTTTTC  | CCTGAGTGTT  | 104700 |
| GGTCTATTTT | GTATAATTGA  | ATTATACCTT  | CTAAGGTCAA  | TATTGCTTTG  | TGTTGTGTTT  | 104760 |
| TTGTTTGGCT | CGTTTACATC  | TTCTGTTTCT  | AAATTATTGT  | TTTGTGGTAT  | ATCATATGTG  | 104820 |
| TTGATTTTAT | TAAAGTTTTT  | TGGTTGGTTT  | GTCATTTCTA  | TTAAATGATC  | ATCTTCTGTT  | 104880 |
| AATTGTCTTT | TTATTATTAT  | GTCTTGGTAG  | TTATTTATAT  | TTTTATCAAA  | AAAATTATTA  | 104940 |
| ATATTGTCAG | ATATTAGTTT  | AAATAAAAAAT | GGAAGATTGT  | AAAATCTTAC  | TTCTTTTTTT  | 105000 |
| TGAGGGTGTA | CATTAAAGTC  | AATATATTCA  | GGGTTTATTT  | CTAAAAATAA  | ATAACATATT  | 105060 |
| GGGAAGTTGC | CAGGAGAAAG  | TATTCTGCTG  | TGTCCATTAG  | TTATTGCTTC  | TAAGAGATCT  | 105120 |
| TTTTGATCGA | TAGGTCTTCT  | GTTGACAAAT  | GTTTAAATAT  | GTCTTTTACT  | TTTTTTTAGAA | 105180 |
| AAGTTATCTG | GTGCTAAAAA  | TATTTCTATT  | TTTATATTGT  | CATGTTCTTT  | TTTTAAGACC  | 105240 |
| CTAAATTTAT | TATTTTCTAT  | TACATTTCCA  | TATACATTTT  | GAACCCTGTC  | AATTAACGAT  | 105300 |
| TCTTTAAAGT | AAATTTTTTCT | TAGCTTTTGA  | TTTAAATTAA  | TTTCGAAATT  | GATTTCTGGG  | 105360 |
| TGGGTATTA  | TTTTTTCTTC  | TAAAACTTTT  | AGACACATTT  | TTGTTTCAAT  | GGGTTCTTGC  | 105420 |
| TTTAAGAATC | TTTTTCCTGC  | TGGAAGTTG   | TGAAATATTT  | TTGTGACATC  | TACTATTGTT  | 105480 |
| CCGTTTATGG | CGGGTTGTTT  | TTTAAAGCAT  | TTTTCAATTC  | CATTTTCTAC  | TTCTATTTGA  | 105540 |
| TAGCTTTCAT | TGCTAGTTGT  | TGAGCTTGTT  | ATTGAAATGT  | TGGAGCAAAT  | TGCAATACTA  | 105600 |
| GAGAGAGCCT | CTCCCCTAAA  | GCCTAGAGTT  | TCTATTTTTT  | TTAAATCTTC  | TTCCGATGAT  | 105660 |
| ATTTTTGAAG | TAGTGTGTGG  | TAGATAGCAG  | ATTTTTTAAAT | CTTCTTTACT  | TATTC CGCTT | 105720 |
| CCATTATCTA | TTATTAAGAT  | TTTTTTGAATT | CCCCCTTCTT  | CAAGAAAAAC  | CTCAATTTTA  | 105780 |
| GTAGCTCCAG | AATCTATTGA  | ATTGTCTAGT  | AGTTCCCTTA  | ATATTGAACA  | TGGCCTGTCT  | 105840 |
| ATTGATTCTC | CTGCTGCTAT  | TTTTTTGAACC | AAGTATTTAT  | CTAAGAATCT  | TATTTTGTTC  | 105900 |
| ATTGAAATTT | ATATTCCTAT  | TATTTTTTTTA | ATATTTTCAT  | TTTTTTTGTA  | ATTTGGAAAT  | 105960 |
| TTTTTTATAA | GTTCTCTTAG  | TGTTTGATCA  | TTGTTATTTT  | CATTATATTC  | TATTATTCCT  | 106020 |
| AGTGCATGTA | AGGCCTCTGG  | ATTGTTTGGT  | TTTAATTTTG  | TATATTCTCT  | TAGAAGGTCT  | 106080 |

|            |            |            |             |             |             |        |
|------------|------------|------------|-------------|-------------|-------------|--------|
| TTAGCTCTTG | TGTTATCATT | AATTTCAATT | AGAGTGGTTG  | CAAGATTATA  | TTTTGCTTCA  | 106140 |
| ATATCTGAAT | TGATTATTGC | TTTTTCAAAA | ATTTCAATTG  | CTTTTGGATA  | ATTTTTTTCT  | 106200 |
| TTTTTGTAAG | GATCCCAAG  | ATTGTTTAAG | GCTAATTTAT  | TATTTTGTGTT | TATTATCTTT  | 106260 |
| TCAAGAGTTG | AGATTGCTTG | ACTTTTATTT | CCTGATTTTT  | CATATGCTTT  | TGCCAGGTTT  | 106320 |
| ATATAGGCTG | AAGTATTTTC | AGGGTTTTTT | TCAATTACTA  | AGCTGTAAAG  | TGATATAGCA  | 106380 |
| TTTTGGTAAT | TTTCTTTTTT | AAGATTTATA | GATGCTTTTA  | AATATAAATA  | TTCACCTTTTT | 106440 |
| TCTGGATTTA | AATCTATGGC | TTTGTATTAT | GTTTCAAGAG  | ATTCTTCAAG  | TTTATTGTTT  | 106500 |
| TCAAATTTTG | CTATTGATAG | GTTGTAAATA | GCAATTTTCGT | TAGGTTTTTT  | TGCATTGGCA  | 106560 |
| TTAAAAAAT  | TTAAATACTC | TTCACCTTGT | TTGAAGTTGC  | CCAAGTTATT  | TGATACTATT  | 106620 |
| CCTGCTTTTA | ATGCATAATT | GGGGTTTTTG | TCGAGATTGT  | AGGCATTTTT  | AAAGCTTGCA  | 106680 |
| AATGCTTGTT | GCATATCGCC | ATTTTTTTCT | TCTGCTATTC  | CTTTTTGGTA  | GTAGGCGGTG  | 106740 |
| CCATAATTTT | TATCAATTTG | TATTGCTTTC | TCAAAAGATT  | CTATTGCTTT  | TTTGTTTTTA  | 106800 |
| TTTAGCATCA | TTAAAGCTAT | TCCTTTGTTA | TGAAGTGCTT  | TTTTATGTTT  | TGGGTCGAGT  | 106860 |
| TTTATTGTTT | GATCAAATGA | TTCTATTGAG | TGTTTCACTT  | TTTAAAGCTT  | GAATCTAATG  | 106920 |
| ATTCCAAGTT | TATAGTGATC | TTCTTGGGTA | TTTGTGAGTT  | TGATAATTTT  | TTCGTATGCA  | 106980 |
| TTTTCTGCTT | TTAGCAAATC | TCCATTGTTT | TCATAAGCTT  | GAGCTAAAGT  | TTTAGAGGCC  | 107040 |
| TGGGCGTCAT | TGGGATTGTT | TTTyAAGAAT | TCGTTTAGAT  | CCTTAATGGC  | TTGTTGGCGT  | 107100 |
| GATTTTGTGT | TTTCAAGATC | AATGGGTTTT | ATTGAATGAA  | CCTTAGATTT  | AAGGTCCTCC  | 107160 |
| AGGTGTTGTA | TTTTATTAGC | TTGAGCTAAA | GTTTTAGAGG  | CCTGGGCGTC  | ATTGGGATTG  | 107220 |
| TTTTTTAAGA | ATTCGTTTAG | ATCCTTAATG | GCTTGTGGC   | GTGATTTTGT  | GTTTTCAAGA  | 107280 |
| TCAATGGGTT | TTATTGAATG | AACCTTAGAT | TTAAGGTCCT  | CyAGGTGTTG  | TATTTTATTA  | 107340 |
| GCTTGAGCTA | AAGTTTTAGA | GGCCTGrGCG | TCATTGGGAT  | TGTTTTTyAA  | GAATTCGTTT  | 107400 |
| AGATCCTTAA | TGGCTTGTTG | GCGTGATTTT | GTGTTTTCAA  | GATCAATGGG  | TTTTATTGAA  | 107460 |
| TGAACCTTAG | ATTTAAGGTC | CTCyAGGTGT | TGTATTTTAT  | TAGCTTGAGC  | TAAAGTTTTA  | 107520 |
| GAGGCCTGrG | CGTCATTGGG | ATTGTTTTTy | AAGAATTCGT  | TTAGATCCTT  | AATGGCTTGT  | 107580 |
| TGGCGTGATT | TTGTGTTTTT | AAGATCAATG | GGTTTTATTG  | AATGAACCTT  | AGATTTAAGG  | 107640 |
| TCCTCCAGGT | GTTGTATTTT | ATTAGCTTGA | GCTAAAGTTT  | TAGAGGCCTG  | GGCGTCATTG  | 107700 |
| GGATTGTTTT | TTAAGAATTC | GTTTAGATCC | TTAATGGCTT  | GTTGGCGTGA  | TTTTGTGTTT  | 107760 |
| TCAAGATCAA | TGGGTTTTAT | TGAATGAACC | TTAGATTTAA  | GGTCCTCTAG  | GTGTTGTATT  | 107820 |

|             |            |            |             |            |            |        |
|-------------|------------|------------|-------------|------------|------------|--------|
| TTATTAGCTT  | GAGCTAAAGT | TTTAGAGGCC | TGAGCGTCAT  | TGGGATTGTT | TTTCAAGAAT | 107880 |
| TCGTTTAGAT  | CCTTAATGGC | TTGTTGGCGT | GATTTTGTGT  | TTTCAAGATC | AATGGGTTTT | 107940 |
| ATTGAATGAA  | CCTTAGATTT | AAGGTCCTCT | AGGTGTTGTA  | TTTTATTAGC | TTGAGCTAAA | 108000 |
| GTTTTAGAGG  | CCTGAGCGTC | ATTGGGATTG | TTTTTCAAGA  | ATTCGTTTAG | ATCCTTAATG | 108060 |
| GCTTGTTGGC  | GTGATTTTGT | GTTTTCAAGA | TCAATGGGTT  | TTATTGAATG | AACTTTAGAT | 108120 |
| TTAAGGTCCT  | CTAGGTACTG | AGGCTTTTTG | TCTTCTTTAT  | CTAATTGAAA | AATTTCTTTT | 108180 |
| TTGTAAGGAT  | CTTTTGGTAT | ATTAATGAGA | TTTGGTTCAA  | TATCTTTTTT | TATTAAGGTT | 108240 |
| AATAGTAAAT  | TTGAAGCTTC | TTTATTTTTT | GAATTTTCAA  | TCAATTCATT | TACTTTTTGA | 108300 |
| AATTTGTTGC  | TTAGACCTTT | TTTAATTAAT | TCTTTTAATC  | TGTTTTTTCC | AAGTGTGACT | 108360 |
| CTTCCGGTAT  | TAATATCGTC | TAATATTTCA | TAGAGCTCTT  | TTTTTATCAA | GTAGCTATAT | 108420 |
| GGCCTATAAA  | TTTTCCCTAT | TATTGTTTGA | CTGGGTGGAG  | AAAGCTCACT | TTCTTTTTGG | 108480 |
| GAATTTGAAG  | AAATTTTTTT | TAAAGATGTA | GTATTGTTAT  | TGTTTGAATA | TTTACTGTTG | 108540 |
| TCCGGAGTTT  | TTAAAATATT | CTCCGAATTT | TTTTCTTTGG  | ATAAATTTGT | GTTTTGCTTA | 108600 |
| TCATTTTCTA  | TTTTTTGAGA | ATCGTTTAAA | ATATTTTCAC  | TATTTGATTT | TCCACTTAAA | 108660 |
| TTTTTTTTTTA | GTTTTTCCAA | ATTAAATAAA | TTTTTTTTGGT | CATTAACACT | TAATTCGGA  | 108720 |
| TTTGGAGATT  | GTATTATTTG | GTCTTCTTCT | TTTGGGTTTG  | TATTTGGTTT | TATTTTTTCT | 108780 |
| GGGATTTTGC  | TTTTTTTAAA | TTCAGATATG | TCTTCATCTT  | CAATGCCAAC | ATCATCGTTT | 108840 |
| CTGTCAGAGT  | AGTTTTCTGT | TATTGTGCTG | TCTTTAATGT  | ATCTATTATT | AAATGCTATA | 108900 |
| TCAAAATTTT  | CGTTTACATT | TGTTTTTGTA | TTGTCTTGAC  | CTTTGATCTT | GTCTAAGATT | 108960 |
| TGATTAGCAG  | AATCTCTTTG | CAAGTCTTTT | GATTCAAAAG  | GACTACTGTT | GGCAATTTCT | 109020 |
| GCTAGTGTAT  | TTGTAAGCAT | TGCAATGTCT | TCATTTTGGG  | GGTATTTGTC | TTGCAGAAGT | 109080 |
| TTTGCAACAG  | AATATGCTTT | TTTATAGTTT | CGATCTATTA  | CGCTATTTTT | AACTTCGTTT | 109140 |
| AGCATTATTT  | CTCGATTTTT | GTCATTTAAT | TTGCTTTGAT  | ATATATAGTA | ACCAAAGCCC | 109200 |
| CCAAATGATA  | AGATAAGTAA | GAAAATTAAA | AGCAATAATA  | CCGAAAATT  | TGTATGTTTT | 109260 |
| TTATTCATCT  | ATGTATAACT | CCTCTTGCCA | ATTAAGTTTT  | TCTAGCTCAA | TTAAAGAATT | 109320 |
| TGTTTCTAGG  | TTGTCTTTAA | AACTATCTTT | AAGTATTTGA  | TTTTTATCTT | CTTTTGCGTA | 109380 |
| TACAATATGC  | TCGGTTCGCC | CCTTCAAAC  | TTTGTCAAGT  | TGTTCAAGAT | TAATTTTTTC | 109440 |
| ATTTCTTAAA  | TAGCTTATTA | TAAGCAAAAT | GCTGTCTTTT  | TTTTCTGTTT | TTGATCTAAG | 109500 |
| GGTAATAAAT  | TGAGAGTAGT | CGTGGATAGC | CATAGTATAA  | GAGTCCCAAG | CTTTTTGGTA | 109560 |
| TTCTTTTTCT  | TTAGAAGTTA | TTTTGCCCTG | TTGAACATAG  | GCATTAGCTC | TGTTTAGTAG | 109620 |



|             |            |             |             |            |             |        |
|-------------|------------|-------------|-------------|------------|-------------|--------|
| CGCACTGTCA  | TAATTAGGTC | TACTTTTAAT  | AGAATTAGAA  | TAATATTTTA | TTGCTAAAGG  | 109680 |
| ATAGTAACCT  | TCCCCTCTGT | TAAACATTAT  | GTTGCCTAAT  | TCATAATATA | GTATGTAGTC  | 109740 |
| GATTTACACC  | CCTACTGCAA | TTCCATCGAG  | CAATGCTCCT  | TCTGCTTCTG | TTAGTTGATT  | 109800 |
| ATTTTCTCTG  | TATGCTATTG | ATAAAAAAGTA | ATAGCCGAGT  | TGTACTTTTG | GATATTTTTT  | 109860 |
| AATAGCATCA  | CTTAGTGTTT | CGATTGCTTG  | AATGTAATTT  | TTGTTTTTCA | TCTCTTCTTT  | 109920 |
| GCCAATTCTA  | ATTAGCCTTT | GAGAATATGC  | CAATTTTGAA  | TTTAATATTA | AAATTAAAAA  | 109980 |
| TAAAATAAAA  | ATCTTGTAAT | TTTTATTTAA  | AAATAAATA   | ATCCTCATT  | TTTTCCCAT   | 110040 |
| ATACTTATTT  | TAGATTAAAT | GCCTTTAGAT  | TTCATAAGCT  | CTTTTTTAA  | ATTTATTTTT  | 110100 |
| TGCTTCAATT  | TTGTTTTGAA | AAAAGAAATA  | AATCTAATA   | AACTATTTTT | TTCATTAGAT  | 110160 |
| TTTATCTTTC  | TATTGTTTTT | TAATTCTACC  | AAATCTCAC   | AATATATTAA | ATAGCACATT  | 110220 |
| GCAGGTAATA  | ATTTTTTCTC | ATTTTCATCT  | TCCAGTTTTT  | CAATAAGATT | AAATCTTATA  | 110280 |
| TTTTTGATAA  | TAATTTTTAA | AATCCTTGAT  | CTTGTTTTTA  | GTGATTTTAT | TAAAAGATAT  | 110340 |
| GATTTTTGGT  | AATCTAGTTG | GTTAGGATTT  | ATTTTTTGTA  | TTTTTATTAT | TTTTTTAGGT  | 110400 |
| ATTGTAATTT  | TATTTTCGTC | AAGGTAGAGT  | AGTATGTCTG  | ATATAAATTT | GAAATGCTTA  | 110460 |
| TATTCAATAT  | TTGGGTAAAA | AGATAGAAAA  | TATACAAAATA | TTTGATTTTG | TATTTCAAAG  | 110520 |
| GTTTTAGATT  | TGAAAAATTC | TTTCATGCGT  | TGACAAAAAA  | TTTTTTTATC | CTTATTATCA  | 110580 |
| GCATAAATAT  | AGAATGCAAT | CCAGCCATAA  | GTTTCTATAT  | TCTGAGAATT | TTTTTTGACA  | 110640 |
| TAATGCATAA  | TAATTTCTAA | AAATGCACTC  | TTAATGTATC  | TTTCTTTTAA | GATTGAGCTT  | 110700 |
| TCGTATGGGT  | TGAAATTTGT | TTTGTCAAAA  | GATATAAAAA  | AATCTTCTGT | TTGAAATTTT  | 110760 |
| GCAGTTATAA  | TTTCTTTTAT | TTTTTCTTTT  | ATGTTGATTA  | ATTTATGTTT | TTCAATGTAT  | 110820 |
| TCAAGTGCAT  | CTATGAAAGA | TTCCCAATTA  | TTAGATATTT  | TGTCTTTGAA | AAACCAAGTT  | 110880 |
| AAATATTTTT  | TTGTTATTGT | TTTTTCAATT  | ACATATAAAT  | AACACTTTAA | TGTGTCTTGA  | 110940 |
| AAATCTTTTG  | GGGCGTATTG | TGTGAAATCG  | CTAAAAAAAT  | AATTAAAGCT | AATATTTTTA  | 111000 |
| CTCGAACCTT  | TATAAAAAAT | TTCATTAAGA  | CTTAAAGTTT  | TTAGTGCACG | TAAGTAGTTT  | 111060 |
| AAAATTTTCAT | TGTATTTTAG | CGCTAGAATT  | TCTTCTTCCA  | AGTATTTGTA | AGGTTTTATT  | 111120 |
| AAAATTTTAA  | TAAAAATATT | TTTGCTCAAA  | CATCCAACCTG | GCCAATATGT | AAGTATTAGC  | 111180 |
| ATTCTTTTTTA | ATTTTATTAG | TCTACTTTCT  | TTATTGGTTA  | AGCTTGATTT | AAAACTTTT   | 111240 |
| TGATTTTCTG  | GTCGATATTT | TAAATTTTTA  | TTTAAAAATAT | TTAATATTTT | AATTAAAnTCC | 111300 |
| GGnTCCTAC   |            |             |             |            |             | 111309 |

## (2) INFORMATION FOR SEQ ID NO: 4:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 53585 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

|  |      |
|--|------|
| AGCATTTAAT TTACAATTTA AACTATCTTT TAAAGATTAC ACCTTATGCT AAAAAATAAG  | 60   |
| TTTTTGGTCG CAAAAATCGC AAATCCACAA TTTATCAACT AAATACTAAT ACACACTTAC  | 120  |
| AATCAATCAA TTCCTAGCTT ATCTTTCAAT AAGTTCAATT TTTCAGCATC CATACTAAGC  | 180  |
| TTATTTAAAT CCAAAGCATT AATAATTGCA ATTATCTCTT CGTGGGAAAA TCTCTTTCTT  | 240  |
| CTTAAAAAAT GATTTTCAAA ACTGTTAAAA GCGATGGGCA CAATTTCTCT TACTATGCTT  | 300  |
| ATCAATGCTT TAGCATATTC GCGCATTCTT TTTGGCGAAT TTTCTTTAAT TTCTTTTGGA  | 360  |
| CTGTCTAGGG CTAATCGCAA TTTAATAAAA TGAAAAAGAT TATTTAAATC AATTTGCCAA  | 420  |
| TACCATTTCGG TATATAAACT TAAGGGCAAA ACTATTCTTG AGAGTTCTTT TGGAATATTA | 480  |
| GCATTGATCA TATCTTGATA AAGCTCATAA GAATGTTTTT GATGATGCTT TATTTTGTCC  | 540  |
| GACAATTTTT CCAAAGACTT AAACCTTTTT TCAGAGCTAT TACTAGAAGT TTGACACTTT  | 600  |
| AAATCTTCTT CTAAAGGGAC ATAAAATTCC TCTCTTGCCA AGCTGTAGCA TCCAGAAACT  | 660  |
| TCATTAATCC TTGCCGTTCT ATGCCTCATC CATTGCCTTG CAACAAATAT TGGAGCTTTA  | 720  |
| ACATGAAATG TAAAAACCAC CTGCTCCAAT GGGCTTGTGT GCCCATTTCT TATTAAATAG  | 780  |
| TCAATAAGTT CCGCATCTTT TCTTTTAACG CTCTCTTCTC GATAAGAAAT CCTTGAGCC   | 840  |
| TTAACTATTC TCCTATCATC TCCCATGAAA TCAATAAGTT TTAAAAAACC ATTATCCAAA  | 900  |
| ATTTTATATT CTTTATTCAA AAATTAATTC TCCTTCCTTA AGGCAAATTT TATTAGTTAA  | 960  |
| GAATATAAAT ATGCAAGTAA ATATTGAAAA TGTAATATTT CATAACGAAA ATATATTATA  | 1020 |
| TCATAAGAAC AGCCTTAATA GGGAGATCAA TATTGATCTT ATTAAATAAA AAAGGCAGAA  | 1080 |
| ACTAATACAA TTAGCTTCAA ACCTTTTTTG TTTAACCTCT AATTATTTAT AAATTTATAT  | 1140 |
| ATCTAACTAT CTCATGTATA AAGAAATAGC CATTACTTTT GTAAGATCTC TTGCGCCTTG  | 1200 |
| AGCTACCTTA ACAACATTAG AAATAGCCTT TGCAACATCT TTTTTTGCTA ATACTTGATC  | 1260 |
| CTTATTTGAC GGATTCAAAC CATTAACCAT ATTGAGAACT TTTTGAGCCT CTTGAAGTGT  | 1320 |
| TTCATCCAAA GCCCTTTCAG AAGCCATTAA AGTTTCTTTA ACTTGCTCCA CTTTAGCAAA  | 1380 |
| TTCTTCTTTT GTTAATTCCA ATTCCTTATT ATTTGGGGAT TTATTTAACA TTATTTGCTT  | 1440 |

|             |            |             |             |            |             |      |
|-------------|------------|-------------|-------------|------------|-------------|------|
| CTCTATTAAA  | AATGTTGCTT | CACCAGCAAC  | AGAAACAGCT  | TTTGGGGTTT | CTTGAACAGC  | 1500 |
| CTTTTTAGAC  | ATTTCAACAA | CCTTGTTTGC  | ACCCTCAGCA  | ACCATTCCTG | AGCACTTTGC  | 1560 |
| CACAATAGTT  | GCTTCTTGTG | ATGCAACAAC  | AGTCCCTTTA  | GCAACATCTG | ACATTAAAGA  | 1620 |
| CATTGAGCCT  | ACAAACTTTT | TAAC TACTCC | TGCATCATTT  | GATTCTACCA | ATTCAAGAGA  | 1680 |
| TGATTCTCTA  | ACTCCCTCTA | ATTTACTAGA  | AACATCTTCG  | GTTACCTTGT | TAATAGTATC  | 1740 |
| TAAAGCTTGA  | TTAACCTGAT | CTTTTTGATC  | TAATTTTTTG  | TTATCTTTTT | GATCTGAGTG  | 1800 |
| TTCTAAAACA  | TTGGATTGAG | GCTTGAGAAT  | ATTTGCATTG  | TTAGAATCTG | CAAACACATT  | 1860 |
| TAAACTTACA  | AATCCAAACA | ATAATCCATT  | AATTATTAAA  | TTACTAAATA | TTTTAGTCAT  | 1920 |
| TGTTAATTCT  | CCTTATTTAA | ACATTTATTT  | TTATTATTTT  | AAAACATAAC | TAAATTAGAA  | 1980 |
| TCAATACATA  | TTTAAATAAA | AATATATAAT  | TAAC TTTTTT | AATTAAGAAT | GACCTTAAAA  | 2040 |
| ATAAAGGGTT  | TTAATAAAGA | TTAAACACTT  | AGATTTTACA  | TTAAAATGGG | GAGAACGGTG  | 2100 |
| TTATTTTCATA | ATAGTTAGAT | TTATTATTAT  | AAAATAACAC  | ATGAAAAATA | TAAC TCAATC | 2160 |
| ACAAACAAAA  | ACAAGGCTAA | TAACAAAAAA  | TTTTTAAAAT  | TAATACACCT | TAGCAAACAT  | 2220 |
| TGCCATTAAG  | ATCAATACTA | ATTACATTGC  | TAACAAATTC  | AAAAAACCAA | ACGAAATATT  | 2280 |
| TTAAGTTTTT  | TTAAAAAAA  | TATTTTAAAC  | AATTAATTTA  | TTAATTTGTA | TTTTAAATGT  | 2340 |
| ATAAAAAAAC  | ATTGAAAATT | AAACAAATTG  | AAATATATTT  | ATATTAGAAA | TCAAAAATAT  | 2400 |
| TGAGCTTGCC  | AAATAAACT  | AATGATTAAT  | TTTTTTTAAG  | GATTACGTTT | TGAAAAGAAA  | 2460 |
| CAAAATTTGG  | AAAACGTTAA | AACTGTTTCA  | AATAACTTTA  | CTGTTCTCAT | GCTCTTTTTA  | 2520 |
| TTCTAAATCA  | AACAACACAG | AAGCGATAAG  | TGAATTACAA  | TCAAGCCCTA | TTAACTTGG   | 2580 |
| AAAAATTAAA  | GTTTTACAAA | AAACAGAAAA  | GATTGTAAGC  | ACCCAAAATC | TTCAAACTT   | 2640 |
| ACAACAAAGC  | CAGTTCTTTA | AAAATGAAAA  | AGAAAAAATA  | ATTAAAAAAA | TTGCACAAGA  | 2700 |
| ATTTGATGAG  | AATGAAAAAT | TGATTAATAA  | AATAGGTCCA  | AATATCGAAA | TGTTTGCTCA  | 2760 |
| AACAATAAAC  | ACGGATATTC | AAAAAATCGA  | ACCTAATGAT  | CAATTTGGAA | TAAATAAAC   | 2820 |
| TTTATTCACA  | GAAAAAAAAG | ACAATAATAT  | TGACTTTATG  | TTAAAAGACA | ATCGACTTAG  | 2880 |
| AAGATTATTT  | TACTCATCTT | TAAATTATGA  | TGAAAATAAA  | ATCAAAAAAT | TAGCCACAAT  | 2940 |
| ACTCGCGCAA  | ACATCAAGCT | CAAACGACTA  | CCATTACACA  | CTTATTGGTT | TAATTTTTTG  | 3000 |
| GACAGGATTT  | AAAATCCAAG | AAGCATTTGA  | AAGCGCTGTT  | AATATTTTAA | CTAAAGACGA  | 3060 |
| GCAAAAGCGC  | CTAATTTTTA | ATTTTAGAAC  | AAAAACAGTA  | AAAGAGATTC | AGGAAAATTT  | 3120 |
| TGAAAAACTA  | ATGCAAGAGA | GAAATTCATG  | GATAAAAATC  | GTCGATAACA | TTATTGGCGA  | 3180 |

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|--|------|
| ATATGACAAA AATACGGGAG GATGCAAAGC TGATGGAAAA ATTCTCGGAG AAGTAATAAG  | 3240 |
| GGTTGGATAC GAGCATGAAC TCGACTCAAA TAAAAGTATG CAAATTTTAA ACAATATTGA  | 3300 |
| AACACCGCTA AAAACCTGTT GTGACCACAT ACACTACTAA TTGGTGGTGT ATGTGCGGTT  | 3360 |
| GGTGTAAGAA TTAAAGGAGG TTAACATTAA AAAAATTTAA AATATTAAAA ACATAAAATA  | 3420 |
| GAGATTTGAT TTTTAAATAT GAAATAATAA TATTGTTATT CGACAAATCT TGAAATGCAG  | 3480 |
| TTATATTATT TTGTATTAAA ATCAATCACC ATTAATTTTG ACTTATAAAT ATGCATAAGG  | 3540 |
| AGAGTGTTTT GACAAAAAAT AAATAAATA TCATTGCAAC AATACTAACT TTAATTGGCA   | 3600 |
| CTTCATGTGC TGTTAATCCA ATTGGTCCAA AAGTAAAAAG CCGCACCGAT ATAAAAGAAA  | 3660 |
| GCAACCAAAA ATCTGGAAAT CCAGAGTCTT TAAATCAAAA ATATCAAGAA GAACTAAGG   | 3720 |
| TCTCAAAATT AGAAGCACCT ACCAAGAAGT TAAAAGATCA GAAAAATGAA TAAATTTAAA  | 3780 |
| GAAATTCTTG AAACGCTTAA AGGCAGCCCC GATTACGAAA ATATAATTAT AGGACTACTT  | 3840 |
| TATCACAAAG CATTGGGCAT TCAAGAACAA CTAGACAGCC ATTTAGAATT AATACAAAAA  | 3900 |
| AAAGAGGAAT TAAACGATCT ACTAATACAC GCAGAAATTTG ACCTAATGCT AAAAGAAAAG | 3960 |
| TTCAAAGAAA CTTTAGAAAA AACTGTTAAA GAAGTTTACC CAGAAATTCA AAAAATTAAA  | 4020 |
| GAAGAGTACT CTGTAAAAAA AATTACAGAG GGTCTTGATA CAGAAATACT TGAAAAAAT   | 4080 |
| GAAGATGCTT ATAAAAAATA TTACATAGCA TACTACATAA ATGAAAATTA CCAAATATTT  | 4140 |
| GATTATTCTA CTTACAGTGT TGAATTTAAA CAAAATAAT TAAACCAATA ATATAAGCAA   | 4200 |
| CAAACAAATG TTGCACTTGA TATTTTTTAA AAAAAGAGAA GTTAATTCTT CTCTTTTTTT  | 4260 |
| TTGCTTACAG CCCAGATCCA AATAAATCCA AACTAAAACA CAATAATAAA TTTAATCTAA  | 4320 |
| TAACAACTAA CCTAAACACA ACCAAGCTTA GCATCATCGT AGCAACACTG ACCTTAATTT  | 4380 |
| GCATCTCATG CGCCGTTAGT CCAATGGCTC CAGAAGTAAA CAGCTACACC AATACAAAAG  | 4440 |
| AAGACACCGA AAATTTAAAA AATGCATCTG GGGACATTAA TTCTTTAAGT CAAAAATCTC  | 4500 |
| TAAAAGAAGT TACAATCGCA AAATTAAAAG AATTTGGCAA TAACTAACA GCTCAAAAAA   | 4560 |
| ATGAAGAAAC TACAAAAATA GAAAAATTA CTGCCGAAAA AGAATCTGAT CTCTTAGAAA   | 4620 |
| CTCTTGACAG TAAATCCAG CCTGTGTATT TTAATAAACC AGAAACAACC GAAGAACTA    | 4680 |
| AAAATAATGT AAAAATGCAA ATAAAAAGAA TAATTTATTC ATCCTTGGAT TACGATAAAG  | 4740 |
| GGGAAATAAA GAAATTAAAA GAAATTATTG AAAAAGTTAA GGGAAAAGAT GGGGGCGAAT  | 4800 |
| ACATGATTAT AGATCTACTC TATGGCAAAG CTCTAGATAT TCAAACACAA ATAGACAAAC  | 4860 |
| ATTTAGAATC AACAAAAGAA GATAATTTAA ACACTCTAAG CGAAGAAAAT TTAAAAGAAC  | 4920 |
| TACTAATACA CGTAGAATTT GACTTAATAC TAAAAGAAAA GTTCAAAAAA GCTTTGAAAA  | 4980 |

AAACTGTTGG AGAAGTTCCT CAAGAAATTC AAAAAATTGA AAAAGAGACT AATATAAAAT 5040  
AATACATAAT AAGCCACATA GATGAAAATT ACCCAACAAT ATTTGATTAT TCTACTTACG 5100  
ATGCTAAATC TAAACAAGAA AAATTAAATG AATTAAAAAA ATAATCTAAA TAAAAAATAA 5160  
TATATTAAAC TTTATATTTT AAAAAAGAGA AGTATTAAC TCTCTTTTTT TAAGCTTACA 5220  
GCCCAGATCC AAATAAATCT AAATAAATTC AATCTAATAA TAATATTATT ATTATTTGAC 5280  
AATATTTTAA ATATAATTAT AATATTATTT TATATTAAAA ATTAATTAAT ACTGGTTTTA 5340  
ATTTATAAGG AGAGTATTTT GAAAAAGCC AACTAAATA TAATCAAGAT TAATATTATT 5400  
ACAATGATAT TAACTTTAAT TTGCATCTCA TGTGCACCTT TTAACAAAAT CAATCCCAAG 5460  
GCAAATGAAA ACACCAAGCT TAAAAAAAAC ACCAGACTGA AAAAACCCTG CAATCCAGGG 5520  
GAAACATCC AAAATTTTAA AGATAAATCT GGAGACCTTG GCGCTTCTGA TGAAAAATTT 5580  
ATGGGAACTA CCGCTTCAGA GCTAAAAGCA ATTGTAAGG AGCTAGAAGA TCGAAAAAAT 5640  
CAATACGATA TACAAATAGC CAAAATTACT AATGAAGAAT CTAACCTATT AGATACTTAT 5700  
ATTCGGGCTT ATGAACTAGC TAACGAAAAT GAAAAAATGC TTTTAAAAAG ATTTCTTCTT 5760  
TCATCTTTAG ATTATAAAAA AGAAAACATA GAGACATTAA AAGAAATTCT TGAAAAACTC 5820  
ATAAATAATT ACGAAAACGA CCCCAAAATT GCTGCAAATT TCCTTTATCG CATAGCGCTG 5880  
GATATTCAAT TAAAACTGGA AAAGCACTTA AAATCAATAA ATGAAAAACT GGCACTCTA 5940  
AGCAAAGAAA ATTCAAAAGA AGATTTAGAG GCGTTGCTAG AACAAGTAAA ATCTGCCTTA 6000  
CAGCTACAAG AAAAGTTTAA AAAAACCCTA AACAAAACCTC TTGAAGATTA CCGTAAAAAT 6060  
ACTAACAACA TTCAAGAAAA TAAAGTACTA GCAGAACTT TTAATAAATA TTACAAAGAC 6120  
TCTGATTCTT TACAATCTGC CTTTTATTAA TTTTAATAAA AAAATTAATA TATTGAACTT 6180  
TATATTTTAA AAAAGAGAAG CTAAAACCTC TCTTTTTTTT AGGCTCACAA CCCAAATCCA 6240  
AATAAATCCA AATAAATCCA ATCTAAAAAT AACAATAAAA TTTAATCTTT AAATATTAAA 6300  
TAATAATATT GTTATTTGAC AATTATTGTA ATATAGTTAT ATTATTATTT TATATTAGAA 6360  
TTAATTAATA TTAGTTTTAA TTTATAAGGA GAGTATTTTG AAAAAAGCCA AACTAAATAT 6420  
AATCAAGATT AATATTATTG CAATGATATT AACTTTAATT TGCACCTCAT GCGCACCTTT 6480  
TAGCAAAATC GATCCTAAAG CAAATGCAAA CACTAAGCCA AAAAAATCA CCAATCCGGG 6540  
GGAAACACC CAAATTTTGT AAGATAAATC TGGAGACCTT AGCACTTCTG ATGAAAAAAT 6600  
TATGGAACT ATCGCTTCAG AGCTAAAAGC AATTGGTAAG GAACTGGAAG ATCAAAAAAA 6660  
AGAAGAAAAT ATACAAATAG CTAAAATTGC TAAGGAAAAA TTTGATTTC TAAGCACTTT 6720

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| TAAAGTTGGT | CCTTACGATC  | TTATTGATGA | AGATATCCAA  | ATGAAAATAA  | AAAGAACGCT | 6780 |
| TTACTCATCT | TTAGATTATA  | AAAAAGAAAA | TATAGAAAAA  | TTAAAAGAAA  | TTCTTGAAAT | 6840 |
| ACTTAAAAAA | AATTCCGAAC  | ATTACAATAT | AATTGGAAGA  | TTGATTTATC  | ACATATCATG | 6900 |
| GGGCATTCAA | TTCCAAATAG  | AGCAAAATTT | AGAATTAATA  | CAAAATGGAG  | TAGAAAATCT | 6960 |
| AAGTCAAGAA | GAATCTAAAT  | CATTGCTAAT | GCAAATAAAA  | TCCAACCTAG  | AGATAAAACA | 7020 |
| AAGACTTAAA | AAAACCTTAA  | ACGAAACTCT | TAAAGTTTAC  | AATCAAATAA  | CTCAAGATAA | 7080 |
| TGAGAAAATA | CTGGCAGAAC  | ACTTTAATAA | ATATTACAAA  | GATTTTGATA  | CTTTAAACC  | 7140 |
| TGCCTTTTAC | TAATAGAAAG  | AAAAAAAATA | ATATGTTGCA  | CTTGATATTT  | TAAAAAGAGA | 7200 |
| AGTTAATTCT | TCTCTTTTTT  | TTTAGACTCA | TAATCTAAAT  | TCAAATAAAT  | CCAAACTAAA | 7260 |
| ACACAACAAT | GTCTTTC AAT | TTTTATAATA | GTTTAAATTT  | AAACTTTAAA  | TAATTTGATA | 7320 |
| TACATTTATA | ATATGTAATA  | AAAATTATTT | TGTACCCAGA  | ACTACATTTT  | TACAAAAGGA | 7380 |
| GAATATATTT | TGAAAAAATA  | CAAATTGGCG | TTTACTAAAC  | TGGGAAAAAC  | GTTACTTTTG | 7440 |
| TGTTCAATTA | TGTGTTCGTG  | CTTTGATTGG | CTCAAAACAA  | GAACCTGTCTG | CAAAAATAGA | 7500 |
| GAAATAATAG | GGCCAGTAGT  | AGAATAAATA | AAAAAGAGCA  | AAGTATTTGC  | TCTTTTTTAT | 7560 |
| TTATATTTAT | TGATTATTAC  | TTAATTTGAA | CTAAGTTTTT  | ATTAATTAAT  | AATTAATTTT | 7620 |
| AAATTTTAAT | TAATTTTGAT  | TATTAAAATT | CATTAAAAAG  | AAATCGAGGA  | ATAGTATTTT | 7680 |
| GAAAAATCAA | CCATTAATAC  | AATTAAAGCT | TTTGGGATTG  | TTTTTATTTT  | CTTGCACGAT | 7740 |
| TGATGCCAAT | CTAAACGAAG  | ATTATAAAAA | CAAAGTAAAA  | GGAATACTTA  | ATAAGGCAGC | 7800 |
| AGATGATCAA | GAAACAACAA  | GTGCTGATAC | AAACTCAAAT  | GCTGCAAAAA  | ATATACCAAT | 7860 |
| TGCTGACAAT | GACAAAGTAG  | CAGCAGAGCT | AAAAAAAACAA | TCGCAAGCGG  | CAAAAACAGT | 7920 |
| AGCAGCAGCG | CCAAATAAAG  | GATCGCAAAA | TCAACCACAA  | ACAACACCAA  | ATAAAGGATC | 7980 |
| GCAAAATCAA | CAAGCAGCAC  | CAAGCCCACA | ATTGCAAAGC  | TTAAGTTTTA  | GCGCAGATCT | 8040 |
| GTCAAATCTG | CCAAAAACAA  | CAGCAGCAAG | AGCTGCATCA  | CTAACAAAAC  | AAAGAATACC | 8100 |
| TATTCAAGCC | GTTACAACCG  | TACCCGGAAA | TACAAGAACT  | TTTAACAGCA  | GAAATAGCGG | 8160 |
| GCTGCCAACA | TTTGCCTTAA  | ACTACAGCTT | TAGTCAACCA  | ACAAGACAGC  | AAACAAATTC | 8220 |
| AAGCTCTGCT | GTACAAACAA  | CAACATCTTC | TGGCAGTAAA  | TTACAAACAT  | TAAAAACGA  | 8280 |
| ACTTATTAGA | GCAATTTCTG  | AAGAAAAAAA | TAAAACACAA  | AACAACTTTG  | GATTTAGAGA | 8340 |
| AACTTACGAT | CAATTCAAAA  | TGAAAGATTC | TGCATTTGAA  | CTGCTAGATG  | TTATTTCAAG | 8400 |
| TGCTAAAGTT | TATGACAGAA  | GTTACGCGCC | ACAGCTTAAC  | TCTAACACAC  | CAGAAGCAGA | 8460 |
| AAATGAAAGA | AATAAATTCT  | ATGCGCTTAT | GGATTTTGAT  | CAATACAAAA  | TTGAACAATT | 8520 |

|              |            |            |            |            |             |       |
|--------------|------------|------------|------------|------------|-------------|-------|
| TGGATCAATA   | ATGGAAGCTC | TTTACAATGA | GAATCAAAAT | CACAGCTTAA | TAAGAGAATT  | 8580  |
| AATGATATCA   | GGGCTTGGAA | CACAAATTTT | TTTCGAACTT | GCACTAGAAG | AAATAAATAA  | 8640  |
| AAAAATTGAA   | ATCTTTAACC | AGGATTACTT | AAACGCTAAA | ATCAACAGTT | TTGATTTTAC  | 8700  |
| CATGAAGCTA   | AAAGAGCTTA | AATCAAAACT | AAATCAAATA | TTAGATAAAA | GAAAAGAATG  | 8760  |
| GTCAAGACAA   | GCTGATGGGC | TTATTGCTAA | TGCTAGCTCT | AATTCAAGTT | TAAGCGATTC  | 8820  |
| CAAAATCCTTA  | GCAGAGTACA | TTAAAAAAG  | ATACCTAGAT | AATATGCAAA | ATGCTCGCCA  | 8880  |
| GTCTGTTCTT   | GAAGCATACA | TTAGTATAAT | GTAATTCAAA | TAGTTTATTT | AAAAAACGAA  | 8940  |
| AATAAACTAT   | TTTGCAACTA | TTTAATCAAA | AGAAGAGCAC | TGGACTCTTC | TTTTTTTTTAT | 9000  |
| TGTTCTATTT   | CAAATTTGAA | CTAAATTTAA | ATCATTAAGT | ATTAATTTTA | AATAATTAAA  | 9060  |
| GTTACTTAAA   | ATTTTTATTA | AAGGACCAAA | TTTTGAATAA | AATAAAATTA | TCAATATTAA  | 9120  |
| TAACATTGGG   | GATAACGACA | TTTTTCTCTT | GCGATCTAAA | CAACAAAGAC | AACAAAGACA  | 9180  |
| AAGTAGCAAG   | CTTTACGGAA | ACAAAATACA | ATGAATTAAG | TCCTCAAAAA | GGCACAAAAA  | 9240  |
| CACAAGATCA   | AAGATCAACA | AAAAACTTAA | AAGTTTCAAA | CAAAGGCGAA | GCGGATCTAA  | 9300  |
| TTGACAAGCT   | TTTTGAAATT | TTAGCAAGAG | AAATGACAAT | AATAAAAAAA | GAAAAACTTC  | 9360  |
| AAACAGAAAT   | ACCCAGCCAA | TTTGGACTAA | AAAATAGCAT | GTTTGAAGTG | CTTAATGTTT  | 9420  |
| ACAAAATTGA   | CTCCACAAAT | GGCACAAGGC | TTCAAGAAAA | AATGAACTCA | AGCCTCGCAG  | 9480  |
| AATCTCAAAA   | AATGAGAAGA | CAATTTTATT | CATCACTAAG | CTATAACACC | ACTGATATTT  | 9540  |
| TCAATTTAGC   | AGAGATTGTA | AACAAACTTT | ACAAAGACCC | AAAAGCCAC  | GATACAATAA  | 9600  |
| AAAAAATATC   | AGGTGGTATA | CGAATCCAAC | AAGGATTTGA | AGTTGCACTT | GAAGATTTAG  | 9660  |
| CAATCAACAT   | GGATAAGCTA | AAAGCAAATG | ATTTTAACAA | AAATACTTTG | GAAGAAATTT  | 9720  |
| ATAATTTAAT   | TGTTGATTTA | ACCTTAATAA | AAAAAGAATG | GCTTAGCACA | ATAGAAACAC  | 9780  |
| TAATTA AAAAG | CTCAAATGCT | ACCTTGAGGC | TACAATACAA | TACAGAAAAG | CTAAACGACC  | 9840  |
| ACATTGAGCA   | AACATATAAA | GATACTATGA | TTTCTCTTTG | CTTGAAATCC | GAGCAAACAT  | 9900  |
| TACTTCACTT   | AGACACATTA | TTTAAATTTA | ATAATAATTA | AAAAATAAGA | CCTTGTAACC  | 9960  |
| AAAGAGAGCG   | CATGCTCTCT | TTTTTTTTGA | ATTCTTCTTG | TACAATAACA | ATTTTGAATT  | 10020 |
| AAAGTTATTA   | ATGGGGTAAT | TAAAATTATT | AATTAATATA | AATTACTTAA | AATTTTTATT  | 10080 |
| GAAGGATAAC   | ATTTTGAAAA | ATAATAAATT | AATTGCAATA | TTTTTATTGC | ATGTATTAAAC | 10140 |
| TGTGCTAATT   | TTGATTTCTT | GCTCTCTGGA | AGTCAAAGAC | AGCAATGAAA | GCAAAAAGCA  | 10200 |
| TAAAAAAGAG   | AAAAGGAAAG | GAAAAGTAGA | AAATCTGCTT | GTTGCTATTA | ATAATTTAAA  | 10260 |

|            |            |            |            |            |            |       |
|------------|------------|------------|------------|------------|------------|-------|
| AAATCCAACA | AAGCCCGCAG | CTGGAAAAAA | TAAAGCAAAT | TCAAAGGCTT | CAAAACAAAA | 10320 |
| AAATAATCCC | AACGCTAATG | CCAACAATGC | TCCAAAAAAA | ATATTAGATC | CTGAAGTTGC | 10380 |
| AAAGCTAATA | CAAAAAATAC | TGGACAGATC | TGAGAATATT | ATTCAAATAA | GCGAAATGGA | 10440 |
| TTCTTCCAGG | GGTGAACCTA | ATGACCAATT | TGGAATGAGA | GCAGAAATAT | TTAGTAAAAT | 10500 |
| ATTTTTCAAT | GCAAACTCAA | CAGTGCATTT | TGACAGCCAC | GAATATACAG | AAGAGAGAAG | 10560 |
| GATGCTTTAC | ACATCTTTAA | ATTTCAACGA | AGGAAAAAAT | TTTAATCTTG | GGCAAATTTT | 10620 |
| ATCAAAACTC | AGCCAAGACT | CAAACTACAG | AGGTTTGGTT | AAAGAAACTC | TTATAAACAG | 10680 |
| AGGCTTTAGC | ATTCAATTAG | CAATGGAAGA | AATCAGCGCA | AAAATACTAA | ATGTAAAAGA | 10740 |
| TAAACTACAA | CAGCTAAACA | AACCTAATTT | GGAAACACTC | TACAATGATT | TTGAAAAACT | 10800 |
| TACATCACTT | AAAGAAAAAT | GGCTAAAAGA | CACAGATGAC | CTTATTGACG | AGTACAATAC | 10860 |
| TAACCTTGAC | TTACAAACTG | ACGTTTCAAA | ATTAAATGAC | ACCTTAAGAT | CAAAAAATTC | 10920 |
| AAGAGCTCAA | TTTGCAAACA | TTCACGATAT | AATTTTGGAC | TTAGTAAACA | CGACTACCAA | 10980 |
| TATTCTTGCT | CCAATTCAGT | AATACTGGTT | TTGCATTCAA | AAGGGGGGAG | AGGGGTTTAA | 11040 |
| AAACCTCTTT | CCCCTTTTTT | ATATTTAATT | TTAATATTAA | TTTAATTTTT | CTAAATCAAA | 11100 |
| ATAATAAATA | GTTATTAGTA | CTGTATTTAA | ATTAATTTAC | AAGCAAGTAT | TATTACTTTT | 11160 |
| TCATTGACTT | TGTCATAGGT | TGCTTCATTG | ATTTGGTATT | TTTGTCTGGC | ATTGACTTCA | 11220 |
| TCATATCTTT | ATCTGTCATT | GGAGCTGTAA | CTTTTGAATC | TTCATCGCTA | GTATTTTCCA | 11280 |
| TCTCATCTGA | AATTCTTGTA | GTTTCGCAAG | CAACAAATAA | TATTGCACTC | AAAAATATAG | 11340 |
| CGTACATTAA | TTTTGTCAAT | GTTTATTCTC | CTTCTTTAAA | ACTGATATTA | TATTAAAATA | 11400 |
| TAATCTTAAA | ATAATCAATA | TCAATTGGTT | TTTTGTTCTA | AATAAAAAAA | ATTATTAAAC | 11460 |
| AATATACAAA | CTATTGATAA | AATCCGTATA | AAATGATATC | TTATACAAAT | AAATTTGGAC | 11520 |
| TGAGGAATAA | TTAAATATTT | GTATGTACAT | AAATTTTAAT | ATTTTAAAAA | ATAATTTAAA | 11580 |
| TAAATTTAAT | ATTACAAAAG | ATAAATATGA | GTGCAATTAA | AAACAACCTG | ATTTACAAAA | 11640 |
| ATGAACATGC | AAAGCCTTTA | AATCCCATTC | TTTGTGCACA | GTTTTACATT | AGAACTTACA | 11700 |
| GCATAGATTC | AAAAGCAGCA | ATTGAAATAA | AATCAGAAGC | AAACTATTTA | GGCCAATACG | 11760 |
| ATAAAATCAC | ACTAACAAAA | GGCAAGCTAA | AATCAATTAG | CATATTGGCT | CACAAAACCA | 11820 |
| GTATGGATAA | AAAAGGTTTA | AAAAACCTAC | TTCAATTAAA | AAATCACAAA | GATTTTAATC | 11880 |
| ATTTTTATGA | AAATAATTAC | ATAAGATGTT | GTTTAAATTT | TGAAGATAAA | CAAAAAAAG  | 11940 |
| AACTGAATTT | AATGCCCTTG | TTTCATTATC | ACAGTTTGTT | AAGCATCAAT | AAGGCAATTC | 12000 |
| TAAGTAACGA | CAAAGAAGGC | AATTTGCAAT | TTGGAAGCTC | ATTTTACGTA | TCAACCAATC | 12060 |



|             |            |            |            |            |             |       |
|-------------|------------|------------|------------|------------|-------------|-------|
| ACAGCTGGAA  | ATATTTAAAC | TTTGCCAAAT | TTCAAAAAAG | TCTAAATAAA | ATTAAACTTA  | 12120 |
| TCTACTCTAA  | TTATTCTAAT | AAAAAATATT | ACATTAAAGT | AAGTCAAAGC | ATTTACGATG  | 12180 |
| CACTAAAAAT  | ATTGACCAAT | GCTTCAAGGC | TAAAAGAATT | TATCAAATAA | TTATTTATTA  | 12240 |
| AAATTAAACT  | TAAACACTTC | CCACACACGT | TTCAAGAGG  | CTCCCAACGC | GAGCCTTCTT  | 12300 |
| TGTACAAATT  | TTAAAAATAA | GTAAAATTCA | TATTTTAAAA | TGTGAGCTAT | ACTTTAAGAA  | 12360 |
| TAGCTACATA  | CTTCATCAAG | GCCAGTAGAC | TGTTTAAATC | AATATGAAAT | AACACTACTT  | 12420 |
| TTAACTACCT  | CCAAAGAAGT | TCTTTTGCAT | TAGAGAACTT | CTTTTTTCAA | TAATTAATTT  | 12480 |
| CTATTATTTT  | TAATAAATTT | AATCAAATTA | GCTTTAAAAC | AACTTATTAA | TAATTAATAT  | 12540 |
| TAATTATATA  | ATGAAAAAAC | CAAAGGATAA | GGAGAAATAA | ATGAGCAAAA | AAGTAATTTT  | 12600 |
| AATATTACTA  | GAAATTTTGA | TCTTGTCTTG | TGATTTATCT | ATAAATAAAG | AACAAAAAAC  | 12660 |
| CAAAGAAAAA  | ACATCTGAAA | AGCAAGAATC | TGAAAAACAA | AATATTGAAA | AACAAGAGCC  | 12720 |
| TGAAAAACAG  | AAACAAAATG | CAGCAAAAAT | AATCCCTACG | GATCAATTC  | AAACGGTAGA  | 12780 |
| AATAAGGGAA  | TCAAATCAAA | TTCCAAAAAG | CATTGAGAAG | TACTACAAGC | AAGCTTATCC  | 12840 |
| GATTCAAACA  | TTCACTCTTG | ATTTTAGCAT | CACAAGAGAA | AAGGAATTTT | TAAAACCAGA  | 12900 |
| AGATAAAATC  | TTGCCACAC  | AGGGGAAAGT | GGAGTCTTTG | AGCATCTTAA | TAAATAAAAA  | 12960 |
| ATTGTTAGAC  | TTTAAAGCCC | CAGAAAATCC | AAAAAGCTCA | ACTTTAAAAA | ATTTCAAAGA  | 13020 |
| AATTAAAAAT  | ATTGAGAATT | TCTTCCAAAA | TCAAGACTTA | TTATTTGTCT | TAACCCCTAA  | 13080 |
| AGATAAAAAAT | AACAACAACA | CTATTAACAT | CATGCTCAAT | CCCCCAAACG | ACATCCAAAA  | 13140 |
| ACCCAAAGAT  | TATATTTTAA | AAGACCTTAA | AGACACAATT | AAAAAGGGTA | CTGGTGAGAA  | 13200 |
| ATACTTAAAT  | CCTATCTATA | GATTTCAAAT | AAAAAACAAA | AAAGATTATC | ATTCAATAGA  | 13260 |
| TTACAACAAA  | GTGACTATTA | GCGAAAAAAC | AATAGAATTG | GACCTACTGC | CTCACGAACA  | 13320 |
| AGTCTTTCAA  | ATGAATAAAA | ATTTCACTAA | AATTTTAGAC | ACAATAACAG | ACTTAAATAA  | 13380 |
| TCTAAAATTA  | GTAATTCAAA | AAGAATTAGT | GTAAAATTAA | ATCGGGCTTT | AAAAATAAAA  | 13440 |
| TACATTTAAT  | TGATTAATTA | AATCCAATGA | TATATAATTA | CATCTAAATT | GCTTAGGTTA  | 13500 |
| AAGGAATGAT  | TAAATGGTTA | AAAAAATAAT | ATTTATTTCA | TTTTCAATAT | TTATTGTGTC  | 13560 |
| TTGCAGTGCA  | ATTGGTCGTG | GGATTTTAAT | AGATTCTATT | CTTAACAATG | TGCACAAAAG  | 13620 |
| ATTAGAACAA  | GAAAAAAAAG | ATGAAAAAAA | GAAAAACCCA | CAATCAAAAG | CCTCAATAGA  | 13680 |
| AGAAAAATGCT | GACAACAACC | CCGAAGAAGA | AGATGATGAT | GATCAAAATG | AAGAGAGTGA  | 13740 |
| GCAGAGCAAT  | TAAATCATTT | TCATATTTTA | AAAGCATTTT | ATTAGCTAAT | AGTTAAAAATC | 13800 |

|            |            |             |             |            |             |       |
|------------|------------|-------------|-------------|------------|-------------|-------|
| TTACGCCTAC | ATTTAAATAT | CTTAATATAT  | TCAAAGGAAC  | ATCGATTTTC | ATCCGATGTT  | 13860 |
| CTCCTTTATT | GATAAATCTG | AAAAATTCTA  | AGTATGCTGT  | ACACTTAGTA | CAAAGCAAAT  | 13920 |
| CCTTTGTATC | AATATAAAAA | AGAAGAATGG  | TGCTTAGAGT  | TTAGAAAAAA | TTAGAAAAAT  | 13980 |
| TTAAAAACAG | CACCACTACT | TCAACACCAA  | ATTACAAATG  | AGCCAAAGGC | AACGCATTAT  | 14040 |
| ATATTGTTAA | ATTTTAATTT | TAAAAAATA   | GTAAGAATAA  | AAATTTAAAA | AAATAGTACA  | 14100 |
| AAATCTATGA | TACCCCTTA  | AATCCCTTA   | AAGGGGATTT  | TTATATTTAA | AAATAAAATC  | 14160 |
| AAAATGCAAA | AAATGTGGTA | TAATGTTTCT  | CAATATTCTT  | TTTTAAAGGA | GTGAGAGGCT  | 14220 |
| TTGAACGGCA | AGCTTAGAAA | AGCTTTAAAA  | ATTGCAATAT  | TTACAACATT | GCTGCTAGTT  | 14280 |
| ATTAGCTGTA | ATGCAAATAT | GGATACAAAC  | GATAAAAAACA | AAGCCTTAAA | CGAATATAAA  | 14340 |
| TTAAAAAATA | TTTCAGAAGT | CATTAAGAAC  | AGCTTGCAGC  | TTGAATCAGA | CCCTAAATTA  | 14400 |
| AAAAAAGAAC | CTGAATCAAA | CATAAATCAA  | AGCACACCCC  | CTATTTTAGA | AATTGAAAAA  | 14460 |
| ATCGAACCTG | GAAAACAAGA | GATGTCCTTA  | AAATCTGAAT  | TTGGCAGCGA | AAGCTTAATG  | 14520 |
| CCACTAGAAG | AACCAGAAGA | AGCAAATATG  | GCAAAATCAG  | AAGAAGAAAT | TGCAAAAAATA | 14580 |
| CAAGAAAAAT | TATTGTTAAT | TGGAGCTTCT  | GACGAGATCA  | CAGATCAAGA | ATTGGGCGAA  | 14640 |
| AATATGCAAA | AATTTTTTAA | TCCAACCTACA | GTAGAATTTA  | AAATTTCAAC | AACCACCAAC  | 14700 |
| GAAACAATAC | TTACCACAAT | TGAAGAAGAA  | GAAATTAATA  | ACAACAAAGA | CAAATTTTTT  | 14760 |
| GACCACAAAG | AAGAAAATGT | CACTTTAGGA  | AATAACTCTT  | TAGAAAATGC | AACTTTAAAC  | 14820 |
| AAAAACACAA | TAACCTTAGC | ACAAAACCAA  | AAATACACCA  | CTCACTTAAA | AAATGATGAC  | 14880 |
| AAATTCATAA | CAAAAGAATA | CTTAAAGCAA  | GTTAGAGACT  | CTCTAGATAA | AGCGCTAAAT  | 14940 |
| GCAATAAAAA | ATTTAGAAAC | ATCTAAAGAA  | TTTAGAGAGC  | TTGAAAATTT | ACCAAAGGAT  | 15000 |
| CAAGAAAAC  | CTCCAAGCGC | AAAAAAGAA   | TCAACTGAGA  | GCAACATTAA | TAATACTAAT  | 15060 |
| ACCGAGAACA | TAGAAATAAT | AAAAACAGA   | TTGCTCGAAG  | AGCTAAACAA | AAGTGAGCTT  | 15120 |
| ATTTTTGAAG | ACACTAAAGA | TCCCCTAGGA  | ACAAGCACAA  | TAAAAAAGGT | CATAGATGCT  | 15180 |
| GCTAAAAAAT | GGCAGGAAAA | AGAAAATTCA  | AGTCAAATAG  | ACTGGGACTT | GGGCTTTAAG  | 15240 |
| TTTCACCCAA | ACCCAAAATT | TTACAACAAA  | TTGACAGCTC  | AAGAATATAA | AGTTTTGGCT  | 15300 |
| GAAAAATTTA | CTAAAGTTAA | AAATGAATAC  | AAAAACACAA  | AAGAACAAC  | AAAAGCTGAG  | 15360 |
| TCCAAATTAA | CAACCAACAG | CATCAGCAAA  | ATAATTAACG  | CAACAAAAGA | ATTTGCAAA   | 15420 |
| CAGGTAATAA | ACTTAATCTT | ATTGGTAGAA  | AAAAATTATC  | AATAAATCTT | TGGCAAAGCT  | 15480 |
| ACACTAAAAA | AGAAAAAGCA | AAAGAAAAAA  | CTATTTTAAG  | CAATCGGGCC | TGTTTTTCCG  | 15540 |
| GTTGTAGTTG | TTGGCACACC | ACTACTATTA  | ACATAAGTTA  | GAGTACCAGA | ACTGTGCATA  | 15600 |

|             |             |            |            |             |             |       |
|-------------|-------------|------------|------------|-------------|-------------|-------|
| TGATTTTCAA  | ACTTAGTTCC  | ATTAATCTTT | AAATTGCCTT | TAATTTCAAT  | ATTATCCACA  | 15660 |
| TCAATGATCA  | ATTTTTTTGC  | TTTAAATTTT | ATATTCTCAC | TTTGCGCACC  | AAGCTCTTGC  | 15720 |
| ACGCTCAATT  | CAAACGATC   | AAGCCTAATG | CCAATTTTTT | TAGGATTAAG  | AACACTTAGA  | 15780 |
| ATGTAGAAAT  | AATTTTTATC  | AAAATGATTA | TTATCACTTT | CTTGGAAAAT  | ATTAAAATTA  | 15840 |
| CTTTGAAGTA  | AAATCACCTC  | ATCTTCTGCT | GTAAATCAA  | AATTAAAGTT  | AGATATACTA  | 15900 |
| CAAGTACTAA  | TCTCTAACCC  | TCGTACTCT  | TTAATAGTAA | CAACGCCCTT  | TTGAGTTTCA  | 15960 |
| AAGTCAAAAC  | TTTAAATAAC  | ACCTATTCTA | CAAATAAAAA | CATTTTCAAA  | AAGAAATTGC  | 16020 |
| TTTAACACAC  | CAGTAGAAGA  | ACCTTTTAGG | CTGCCTGACC | CTGTGCGAAA  | ATCATTATTT  | 16080 |
| TGCATAATAC  | ATTTCCCCTT  | TAGAGTAAAG | CTCTAGGTTT | AAAACACACT  | CTCTGGTACT  | 16140 |
| ACTTAATCTG  | GCACTGGTGT  | TTTTAACCTT | GCAGTCAAGA | GTATTTCCAT  | GTCTGTCTTT  | 16200 |
| AAAGCTTAGA  | TTATCTGCAA  | TCTTAATGTT | GTGAGTAAAC | ATCACTTGCG  | CTTGATACAA  | 16260 |
| ACTTAAACCA  | GACTTAAAAC  | CTAAAGCATC | CTTTTGAGGT | ACAAACAAAA  | GCCCATAATC  | 16320 |
| TTCAAGTCTT  | TTGTACTCAG  | CAGCGCCAAA | CTGTTCAAAA | TTCATGAAAA  | TAAATTTCAA  | 16380 |
| ATCAACATCT  | TGCCCCGGAT  | TTCCAATATC | AACAATCACA | GCGTCAACGT  | ATCCTTGCCG  | 16440 |
| CCTTAGGTAT  | TCTATTAATC  | CTTTTGCGGA | GTTACAAGCA | AAGCTCTCTT  | TGATCACTTT  | 16500 |
| TGTTTTTTTCA | AGCTCATTCA  | TAAAAAAAAT | TGCTTTGTCC | TTAAACGCAT  | AATTTATTGC  | 16560 |
| ATCAGCAATA  | GTGCTGCCTT  | TGAAATTCTT | ATACTCAAAT | TTTCTCTCTA  | AAAAGGTTGC  | 16620 |
| TCTGGACAAA  | AGATACAATT  | CACACTCAAA | ACTAAAATTC | TCAGCCCCAC  | CAATTCTCTC  | 16680 |
| AACAGGCGCT  | CCCAAATACC  | CAGCCATAAT | AAACTGGTAA | TCTTGCTGAT  | CTGAAAACCT  | 16740 |
| TTTATAATAA  | ATTTTTTACAA | TGTCTGCAGT | TTTAAAATCA | GAAAAATCTA  | AAGGCACATT  | 16800 |
| AAAAATTTGA  | AGTTTAGCCT  | TTTTACTAGT | TATTAAATTA | TTCTCAGAAT  | ATGTATTTTG  | 16860 |
| AATAAAAAATA | TTCAAATCAG  | GAGCACCATT | TTGAGTGGTA | ATAACAACCTC | TGGGCCTAAG  | 16920 |
| GCCTGAAAGC  | CTGCCGCCAA  | TGCTATTCTT | AGAATTAACT | GTATTGTAAA  | ATTCAATCTT  | 16980 |
| AAAATCGTAC  | TGAAATATTA  | ACATCTTTTT | TAAATAAAAC | TCCTTTTAAA  | TCAATATTAA  | 17040 |
| ATTGATTGAT  | TAAATCTTAA  | ACAAATCAGC | CTAAAAGCAA | AATTTAATTT  | TTTACTCCTT  | 17100 |
| ATTTGATTTG  | TAAATCACCA  | TCACTACAAC | TTCTAACCCG | GTGAACAAAA  | TCTTATGATT  | 17160 |
| AATGTCTAAC  | ACATTTTTTTG | AACCTATCTT | TTGAATAAAA | AGTCTTAAAT  | CTCTCTCTAA  | 17220 |
| TTCCCTCAAAA | GATCTCTGCT  | GATTTAGTTT | AAAATTGAAA | ATTTTAACCT  | TAATAACTAC  | 17280 |
| ACCATTCTCA  | ACAGCATAGG  | AATGCAAATT | GAAAGACAAA | CAAAAAAATA  | AAATAAAAAAT | 17340 |

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|------------|------------|-------------|-------------|------------|-------------|-------|
| TGTACAAACT | TTTCTCACAA | ATGCCACCAA  | CTTGCCCTTAA | ACTTGTAAT  | GCCTTGCTAC  | 17400 |
| CTTTGCTTTT | TGGCTTTATA | GATCACCATT  | ACAGACAAAC  | CATTAAAAGT | TATGCTATGC  | 17460 |
| TCAATGTTTA | AAATATTCTC | AGGTCCTATT  | TTATTAATTA  | CATTTTGTAT | TAACCCTTCA  | 17520 |
| GCAGAAGAAA | CAGAATGATC | TTCGTTTAAA  | TTGCCACTAA  | TTTTTACTTC | TTCGTATAAA  | 17580 |
| AACTTGACTG | CAATCTCTTC | GTCATCTTGA  | AGATCATAAG  | AATATAAATT | AAAACCTTAA  | 17640 |
| AATAAAAAAG | AAATTAAAAT | TAATTGTCTC  | ATTAATATTC  | TCCAAATAAA | AATTATTCTG  | 17700 |
| GCTTTAAAGC | CTAAAAAATT | AAACTTAAAA  | AGTTAACTT   | AAAAGATTAA | AAACTTCCAA  | 17760 |
| AGCAAATCAA | AAAAATATTC | AAATTCAAAA  | ATTTAAATAA  | ACTGATCTTC | AAGAGAATCA  | 17820 |
| AAAAACTCAT | CTTCACTCTG | GTCTTCATTA  | AATGTATCGT  | CTCTGCTTTC | TCGATCATCT  | 17880 |
| TGGTACTCTC | TTTCCCCATC | ATCTGGATCT  | TCGCTTTCTA  | GCTCATCGTC | TTGGTACTCT  | 17940 |
| CTTCTAGCT  | CGTCTGATTC | TTGGCTTGGA  | TCATCTAAAA  | ATTCACTTTC | TGCACCGTTA  | 18000 |
| AGATCATACT | TATCTAAGAT | TCGTCTTTTG  | TTGCATTTTT  | TTACACCTTG | TGGGCTTTTG  | 18060 |
| GAAGGTCTTG | AGTTTTTTGA | AAACTTTGAA  | CCAACAGATT  | TGTTAGGCTT | GCTCCTTAAA  | 18120 |
| GACTTCAGTT | TGCTCTGATT | GTCAGATATT  | CTTTTTTTAA  | TATTTTCACC | AGATTTTACA  | 18180 |
| TTCTTAAGCC | TATTGGATTG | AAAATAGTTT  | TCCAGAAAAA  | GAGCTTTTTT | AATAATTCTC  | 18240 |
| TCTGCAATAA | GTTTCGTATA | TTCCGGATTT  | TCAATAAGGC  | TTTTGTTTTT | GTAATTTCTT  | 18300 |
| GTTAAATATT | TATATTTTCT | AATAATCTTA  | AGTAGTGGTA  | ATTCCACTTC | TTTTTGAAAT  | 18360 |
| CTACCCCTAA | CAAGTTTTGC | TTTTATTATT  | CTTTGCAAAT  | TATTACAATA | GGCATTCACT  | 18420 |
| GCATTAAGCT | TAGTAAGCAC | TTCTTGACTT  | TTGATGCTGC  | CAGCTTTATC | TTGAGATTTG  | 18480 |
| ATTAAAATCC | CATTGTCAAG | ATCATGCATT  | AATACATACG  | CCAAATCTAT | GTCTTTTTTG  | 18540 |
| AAATTCATT  | TTCTAAAATC | AAATGGTCTT  | GCAACACTTG  | CATATGTCGT | TGAAACAATA  | 18600 |
| AATAAAAAAA | ATATTAAAAT | AAGTTTAAAT  | TTTATCATTA  | ATATTCTCCT | AATATTTAGA  | 18660 |
| TGTTTTTAAT | TAATATTTTA | ACCTTTATAA  | GTCAAAATAT  | TAAACGTTTT | GCAAATTTTT  | 18720 |
| ACTTGCAAAC | TAATTTCAAC | CTCCTCTAGA  | TAAACTGTGT  | CTTTAAGCTT | TAATGAACCTA | 18780 |
| ATGCTTACCA | CCTCGTGAAA | CCCCACCGAA  | GGcTGTACAT  | GCTGTAATAA | ACCCCCAGAT  | 18840 |
| TAAACCTTTG | CCTGAATTGC | ATTTTTTATAA | AATTGCTATT  | AAATTCTAAA | GCACTATTCA  | 18900 |
| TAAAAGGAGT | TTCTCTTAAA | GCTCTTATCA  | AAGTTTGATC  | ATAAATAGAT | GACAAAATCC  | 18960 |
| CTTTATTAAT | TGTTACAATC | TCAGGCCTTG  | GAGTAATGTT  | AAAGTTTACA | TATTCACTTT  | 19020 |
| TTGTATTTGT | AAAATCAATT | ACTGCACGGG  | CTGAGCTTAC  | ACTTGAGAGA | TTTTCTTCTA  | 19080 |
| TTAGATCGTG | CTTTACAAAA | ATAAAAAATA  | GCTGGGGAAT  | GTACCCAAGG | CCTTTAAAAT  | 19140 |

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| CAAGCCTTGG | AAAAAGTAA  | ACAAAATTAG  | AAATGCTTGC | TAAACTTGAA  | ATTTGATTTA  | 19200 |
| CAATCTCTTT | TATTAACCTA | CTAGCTTGCT  | CTTTAATCAC | TTAAAACCTC  | TTTTGCACTT  | 19260 |
| AAGGCATTCT | AGAATCGTCA | TCAATTCCTC  | TTGAATTTAA | TTCAC TAGCG | CTATTTAGCA  | 19320 |
| AATTTGTCAT | GTGCTCAACC | AAAGGTAAAC  | TTTCAAAAGC | TTGCGCCAAA  | ATACTACCAA  | 19380 |
| GATTTGAAAA | AGTATTTCTT | AATGGGTCTA  | GCACACTGCT | TGTAAAATCG  | TAATTTTTAG  | 19440 |
| CCCACTCCAA | AAGTTCTAAA | GTTTTTTCCA  | AAATTGAGTC | TAATCCAGGC  | TCAAAGGCAG  | 19500 |
| TGTTTATTAT | TTTGCTATTT | AAAACCTCAG  | GCTGCCCCGG | ACTCTTTAAA  | GACATTGTTG  | 19560 |
| GCATCCTAAA | ACTTAAAACT | TTTTCTAAAT  | TATTCTCACC | CCTTAGAAAA  | TCACCTACCA  | 19620 |
| AGCTAATTGC | TTTTGAATCA | TTTTTTGGCAT | GCCCTTCGTT | TTTTAATTTT  | TGTGCAAGCT  | 19680 |
| CAACCATAAA | AGAGAAATCA | TTTGAATTTG  | AATTTAAAT  | TGAATCTGGA  | TTTGAATTTT  | 19740 |
| GTGAACCTTG | AAGAATGTAA | AGTTTTCTTA  | AAAAATCATT | TCTCTCAAGC  | TCTGTTTCAA  | 19800 |
| AAGATCTTTT | TCTTTTTAGT | ATTTTATTTG  | CACTTTCTTT | TTGATCATCT  | TTGAAAACCA  | 19860 |
| AATTTTCAAG | ACTTAGAGCA | GTCTTTTTGT  | CTTTTAAAT  | TTTAAATTCT  | TCTAAAGGCA  | 19920 |
| AATTTAAATC | ATTAAAACCA | TTTTTTATAT  | TAAAAAAATC | TACAAGGCTT  | GAGTCTTTAA  | 19980 |
| AAAGATCTCT | AAAAGACATT | AAATTTTTCC  | AAACAATCTG | GCTGTTTGCA  | TTTTTTTAAAC | 20040 |
| CTAATGGTTC | TTGCAAATCC | CCAAAAGGGA  | AAGTCTTGTT | AAAATTGGAA  | TCTAATCTAA  | 20100 |
| AGTCTTTTGG | TAGATTAGTT | TGAGCTTCAC  | CAGAATTAT  | AACAAAATTC  | TGCTTAAAAG  | 20160 |
| TGTTTTTAAT | ATTTTCAGTT | TTAAAATATG  | AATGCTCTTG | AGAGCCAAGA  | TCCAATTTAT  | 20220 |
| CTACTTCTGG | CTTTAAATAA | GAGCTTAGAC  | TACTTTTATT | CTTATTTAAG  | TGCCCATCAG  | 20280 |
| GCAAAGCGAT | TTTGTCTTTT | AAATCTAAGT  | CTAAATCCAA | ATCTTTTAAA  | ACGCTTTTTG  | 20340 |
| GATTGTTTTT | CTGAAAATCA | GGACCTAGAA  | AATCCTTAAA | AGAATCAATT  | TTGCCTAAAA  | 20400 |
| CATTTAAAGA | TTTAAAACTT | GCTGATTTTT  | TAGAAATATC | ACTTTTGGGT  | CTTTTCAAAC  | 20460 |
| TTTCAAGTTT | TTCAAGGCTT | AAGGATAAAA  | AATCCTTACT | ACCTTTTCCA  | CCCAAACCAC  | 20520 |
| CAAAACCTTG | ACTGAAAAAA | TTTTCCCTTT  | TTAGACTTAA | AAACTCTTTT  | TTTAAATTAC  | 20580 |
| TCTTTGTGGC | ATTTCTGTCA | AGAACGCCTT  | CTAATGTAAT | TGTGAATTTA  | TTCTCATTAT  | 20640 |
| TGTTTTCTTC | GTACATAAAA | ACCTTTAAAA  | CACGCTACTA | AAAGACAAAA  | ACCTCTCGTA  | 20700 |
| TATTTCCCTG | TTAAGCTTTA | AATTGGCTAC  | TCGGTTAACC | TCTACAAGCT  | CCTTG TAGCC | 20760 |
| CATTTTTTTA | ACATCTTTGT | ATGTACAAAT  | GCCCATTACA | ACAGGAAAAT  | AATACTTATT  | 20820 |
| AGTTTCTCTT | GTCAAATAGT | CTATGTATTT  | AAAATAACTA | GTCGCAATCT  | CTTGCTTATT  | 20880 |

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|------------|-------------|------------|------------|-------------|-------------|-------|
| CATTGCTACC | TTCTTGCAAC  | AAAGACTCAA | AACCAGGCTC | TAAAGAATCT  | TCTGAGTTTA  | 20940 |
| AGTCTGAAGG | CTTGCTGTTT  | GTGATTAAAT | CATAACTCCA | GCGCTCATT   | ATGTAGTCAT  | 21000 |
| ACTTAATGTA | GTCGCCGTTT  | TTATCTTGAA | AACTTTCAAT | GTAAACCAAC  | CCGGGCTTTT  | 21060 |
| TAAAACCTTC | AATTGTTTCA  | AAAAGTGAAT | ACTGAACTGA | AAAAAGAATT  | GTGGGAAGAG  | 21120 |
| CGTACTTGTA | AAGCTCAGAA  | TATCTTCTCT | CTTTGTTTAA | AATTTTCGTAA | AATTCATCTA  | 21180 |
| AAAAACCTCT | TGAGATCATT  | AGTTTGTTTA | TTTCTTTTAA | TGTTCCGAGA  | TCATTAAGCT  | 21240 |
| TGCTAATAAG | CTCATCTCTT  | TCAACGTCAA | ATCCTAAAAC | GCTGTCCCAA  | TCGTACATGG  | 21300 |
| GAATATCTTT | TAAAACGTAT  | GTATGTGTTT | TGGCTCTGGT | TAATATTTTT  | AACTTGTATC  | 21360 |
| TCATTTTTAA | TTCTTATCCT  | TTTAAATTTG | CTTTTAACAA | TTTTAACTTG  | TTTTTAACAC  | 21420 |
| TTTTAACTTG | CTTTCTCAAC  | ATCACAATTG | ATTGCATGAA | TTGTAAACTT  | AACAGTATCA  | 21480 |
| TTATCAGCTG | AATACTTTCT  | AGTTGGAATT | TCTGCAAAAA | AGGCACTATT  | TGAAATAAATT | 21540 |
| TTAAGTCCCA | TTTGATCGTT  | AAACACCAAT | CTTTTAACT  | TTTTAGATTT  | TGGTACATTC  | 21600 |
| TCGTAAAATT | GCTCGTTGCT  | TAGCTTTGTT | AAGAGTTTGT | AATCAAGAGA  | CCCTTTGCTT  | 21660 |
| ACTTCTAAAT | CAAAAATATG  | AACAACGGTT | CTTGGATCTC | TAAAGCTTGG  | AATTGGAAAA  | 21720 |
| TTTCTGTCTT | CTGTGCTTGC  | TTTAGCCATT | ACATTAGGCT | CTGTGCTGTA  | CTCAAGAGTG  | 21780 |
| CCTGTGTCTA | TTAAATTGTC  | ATTAAAGCTA | AAAAATATTA | AATCAAGTGA  | ATAATATTCT  | 21840 |
| CTCATTATGA | TGCTCTCCTT  | AAATATTCGT | TTATCTCTTG | TGTTGTTATT  | ATTAAATTAA  | 21900 |
| CGCTATTAAA | GCTGTCAATTG | TACTTAAGCG | CAACCTCTAA | GCTTAAGCTT  | AAGCCCTCAG  | 21960 |
| AAGAGTTAAT | TTTAAGTTTA  | ATCTCCTTGT | AAGAGACAAT | AAGACCTTTT  | TGTTTAAGTT  | 22020 |
| CATGGAAAAA | ACATTCAAGC  | CCTGCTGTGT | ATTCGTTTGG | CAAATTGCCG  | TCCAAATTTA  | 22080 |
| AAGAACCAAG | CTTGCTGTTA  | GCTCTATTGT | TTTTATTCCA | AATCTAATA   | AGCTCTTTGA  | 22140 |
| TTGCTTCATT | TTTAATGTAA  | AAAAGCGTAA | AAGTCTCATC | AATCGGATCG  | CCTGAGAGAC  | 22200 |
| TAACCCCTTC | TTTGAAAGCT  | AAAATGCCGT | CATTGCCGGT | TCATTAAGA   | AGTGAGTAAA  | 22260 |
| AATTAATATT | GGTCTTTCTA  | AGAGAATCAA | TAAGAGAATC | ATCATAAACA  | GGAACAGCGT  | 22320 |
| TTAAAATCAT | CCCATAAGGA  | TTAACAGCGT | GAAAAATACT | TGCTTGATGC  | AAATACGCTG  | 22380 |
| CTGTAAACTT | AAGGTGCAAA  | TTTTGCTTGC | CGGCGTAAAC | AGCAATAATA  | TTTTTAAGCT  | 22440 |
| CACTTTTGTC | TTTGCCTTTT  | AAAAAATCAG | GCAAATTGGC | ATCTTTAGTA  | GAAATTACAA  | 22500 |
| TAAAATTGCA | AATTTTTCTA  | ATCTCTTCAA | AATCGCTACT | AATAACATCT  | TCTGCTTGAT  | 22560 |
| TTACAAAAAC | TACAAACGGA  | TGTAAATTGG | ATTTTAAAAA | ATCTTTAATC  | TCTTTAATCT  | 22620 |
| GGTTGTAAAC | ATAAAAATCA  | ACAGACTTAA | GCCCGTCTTG | CCCCAAAAAA  | TCGCTCATTG  | 22680 |

|             |             |            |            |            |            |       |
|-------------|-------------|------------|------------|------------|------------|-------|
| ATTTTTTTTAA | AGCGCTCAGC  | TGCTCTTCTG | CTATTTTCTT | CTTGGAAGAA | TCAGACTCTT | 22740 |
| GGGCCTTTTG  | CATCTCAAGT  | TTTTCAAGAA | GATCTTGTA  | ATTGTAAACA | CTTAATGCTA | 22800 |
| AGTGCTTACT  | TGCTAAAACA  | TTGCTTTTGT | AGATTAAAAG | CGGATTGTAA | TAATTAACAT | 22860 |
| TATTGAAAGC  | TAGTCTGTTT  | TGCACAAAAC | TAACGCTTAT | TGTATCTTTT | GGCATTTATA | 22920 |
| CTCCTTTTTTA | AATTTCTTTT  | TTTTAATTTT | TTTCTATTTT | TTTCTATTTT | TTTCTATTTT | 22980 |
| TTCAAAAAAA  | TTTATCTCTC  | TTGTTTTTAA | ACCTGTATAT | TTGCAACAAA | AATCTGATTA | 23040 |
| AAACTAAAAC  | ACATATTGGC  | GTGCATATTA | GAAACACCAA | GAAGCCCATC | ATTATTTAAA | 23100 |
| TTGCTAATCG  | AGCAAAGATA  | ATAAGTTAAA | AGCAAATAAG | AATCGCCTTC | AAGCTCTTTT | 23160 |
| GTAAACTCAA  | ACTTAAATCT  | ATTCTCGTGT | AAAAATTTCA | AAAAGTGTTT | ATACACTTTG | 23220 |
| CAAATGTTCT  | CATAAGAATC  | TTTGTAAGCT | TTAAATAAAA | CAAACTTAA  | AAAATAAAGC | 23280 |
| GAAAACCTTA  | ATCTAAATTC  | ATTAAACTCT | TTACAAGAAT | TTCTACCCCT | TAGATTTCTG | 23340 |
| GGGGTAAGAC  | CTTCGAAAGA  | CTCACTTTTT | AATACAAGTA | AATTGCTAGT | ATTTGTAGCA | 23400 |
| AACTTTTCCA  | AATACGGGTG  | GTTGTAAGTG | TTTAAGATTT | CCAATTCTAT | TTCTTTAAGA | 23460 |
| TATAAATATT  | TTTTAAAATT  | TGTAAGTATT | TTTATTAAAA | ACTGTACAGA | CTCATTTAGT | 23520 |
| CCTATAATCA  | TGATTATCCC  | CTTCTTTTGC | TTTLAGATCC | TGGGTTTTTC | AATGCTTTTA | 23580 |
| TTAGCCTCTT  | TGGCCTTAAA  | AGCTCTTTTT | GGACTTAGAT | CTTTTTGCAT | GATAAGTGAA | 23640 |
| TAATTTTTTAC | AAAAAACTCT  | AAATTGATCT | TTTATTTCAA | TAAGTCCTTT | TTGAATAGAT | 23700 |
| TTTCTAAAAG  | CTGTTTTTAT  | TTCTTTGTTT | GAAAAAATAT | TAGAATAAAA | CTCTTTGTAA | 23760 |
| AAAGCCTTTG  | CTAGTTTGAA  | ATTAAGCTCT | TTTTTAATTT | CTTCGGATTT | GATATTAATG | 23820 |
| CTATTTTCTG  | CATTAAAAGA  | AATGTCCTTT | AATTTAATCT | TTACACTCAA | CAAGAGCTCC | 23880 |
| TTAAAACTAG  | AGTATTGTAA  | TTTAGACCTT | CTTTGTAACT | TTTTTGAACC | CCCAAGATCG | 23940 |
| AATAAACATC  | ATCAAAAATC  | TTAACCAAAT | CTCCGTACTC | AAATTCCAAA | TTCTCAAGAG | 24000 |
| TATACACCTT  | GGCGTAACTA  | TTTTGATCAA | AAATATTTAC | ACCTTCAATC | TCAACTACTT | 24060 |
| CTTCTGGATT  | AATTAACAAA  | AACATTCCTT | TAAAAACAAC | AGTATCAGAA | CTTTTAAATC | 24120 |
| TAGTTTCATA  | AGATGCATTT  | ATTGGATCTT | TGATTACTCT | GAATTTACAG | AAAAAAAAGT | 24180 |
| CTTGTTGAATA | TATACTTATA  | ATATTACTTA | AACTAATATT | AATCATCTCT | AAAGATTTC  | 24240 |
| TTTAACTACT  | CCTATTAGAG  | AGCCTTTTGC | TCTTAAATCT | TTTATTAAAT | CATCCAAGCA | 24300 |
| TTTGCAAAAA  | TCGCCCCCAC  | AGCTGCTAGA | GTCAAGATTT | GTGGGAAAAT | ATTCCAATGA | 24360 |
| TATCTCTTTA  | AATTTTTTCAG | ACTTAATGTT | ATTTAAATTA | AAACCCTTTA | ATCTGTTTCG | 24420 |

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|------------|------------|------------|------------|------------|------------|-------|
| TCTTTTAAAC | TCGCAACCAA | TAAAATAATA | AATTAAAACA | AACATTGTAG | AATCATTTAA | 24480 |
| ACTTTCAATT | CTTATTCTCT | TGAGAATTAA | AATATTTTCA | AGTAAATTTA | AATATAAAAA | 24540 |
| AAATTCTTTG | ATACTTAGAT | CTTTAAAATC | AAGCATTAAG | AGCTTAAGTA | TTTGCTCATA | 24600 |
| CACTCTTTGC | AGTGATTCTA | AATTCTCACT | CTTTAGAGTT | TTTAAATTTG | CACTTAAGGC | 24660 |
| CTGATTGGTA | TCTAATTTAC | TGTCATTCAT | TTTTTAGCTC | AATTTTATCC | TAAGGATTGA | 24720 |
| ATTTTTTGTT | GCCAAAATTG | TTCGAATAGA | AAAGTCAAGA | AAACTTGTTT | TAAAATTGCT | 24780 |
| ACTTGAAACT | TCTGTGTATG | AATTTAATAT | CGGCTGATGA | CCGTCTTTTA | AAAGCAGTAG | 24840 |
| TTTGCTACTT | CTTGGATATA | TTAAAATTTT | ATCATCTAGT | AAATTTGTAG | TCTCAAGCTC | 24900 |
| AATATCTGCA | TCATTATTAA | TTGCGCTTAT | AAAATCAAAA | AGCATGTCTT | TGTATGAATA | 24960 |
| ATTGTTGTTT | GGAAGTCTTT | CAAGTAGGCG | GCCTTTGATT | TTACTGGTTG | TAAGTATTTT | 25020 |
| AAAAGGCACC | CTTCTCTCGT | CTTCCAAATT | AATTTTTGAA | AGATCATCAT | TTATTGATTT | 25080 |
| TATTTGATCT | AATATGTTTG | TCTGTTTAA  | TGTTTTATCT | ATTTGATTTG | GAAGATTCAA | 25140 |
| AAGTCCGTAC | ATAGTTTCAT | TGTTAGACTC | ATCAACAAGA | AGAGTTCTTT | TACTGCCTCT | 25200 |
| TGAGAGTGTA | AGTCCACCTC | TTAAATAGTG | CGCACTCATT | AACTTTTGTA | TCTCAATTAT | 25260 |
| TGCTCCTAAA | AGCCCTTCTC | TCATGTTAAT | ATTTGTGTTT | GCCTCTACGC | TAACTTTTCC | 25320 |
| ATCTGGTGCA | TAGTAAGTAA | ATGCATACTG | AAAAGGTAAA | TAGTTAATTT | TTACTATTTG | 25380 |
| TCTTTGGAAC | TTTATTGTTG | AGACTGTGTT | AAAATCATTA | ACCTTTAATG | TGGGAATGTC | 25440 |
| TGTTAAATTA | GAATACCACT | TAATAATTCT | GTCGCTTCCA | AGGGAAATAT | TGCTACTTTG | 25500 |
| TATTTGCTGT | GAATCTAGAA | AATGATAATA | TTCTGGGATT | GGACACTCTT | TAACTAAAAC | 25560 |
| ATCCCTTACT | GTGTTTACAT | ACTCGTCGTT | ATTTAATATG | CTCTCATCCA | TTCAAATTCT | 25620 |
| CCTATTTTAA | ATTGAATCTT | TTATTTGCTT | GACTAAAAAA | AGAACTCTAA | CTCCATAAAC | 25680 |
| ATCTCTTCTG | TCTTTAAATT | CTAAAGCAGG | ACCTAATGCT | AAAGCGTGAA | TAACAGATGC | 25740 |
| ATTTTTGCTA | GATTTTTCTA | AAACCCCTTC | GCTGTTTATT | ATTAATTTGT | CTTCTGCTTT | 25800 |
| GATGGTTTTG | TCTTTAGTAA | TCAAAACACA | TTCAAAACTA | CAAGTGATTG | GAACAACCGT | 25860 |
| GCCGGTTCTT | GAAAAATCGT | CAAAGTCTAC | ACAAACCCCA | TAAAGATCAC | TACCACCGCC | 25920 |
| TTTTGCTATT | TGCAAAATTG | AACCGTTAAC | AATAAGCTTA | ACTCCGCATT | TGTAGCAAAA | 25980 |
| ATCTAAAGCT | TGATAATTTT | CAAACCTATC | AGCAGAAGAG | CTTTTAAGTC | CGCCTTTTTG | 26040 |
| AGCAAAATAA | AGCCCTTCGT | CTTGAAATTT | GTGGCTCTCA | AATACCGGGT | AACTGCTAGC | 26100 |
| ATTAACGCTT | TGCAGTTTGT | CTAAAACAAT | TTTTTGAGCT | TGATTTTTCT | TTAAACTTTT | 26160 |
| AAGCTGGCTC | TCAAGTTCTA | CTTTTGATGC | TTTTAGCTTT | TCTATCTCTT | TTTGAAAATC | 26220 |



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|------------|------------|------------|-------------|------------|-------------|-------|
| AATTGAATCG | CTCATTAATA | ATCTCCTFTT | TTAAATTAAT  | TTTTTGTTTA | ATTTTTCATT  | 26280 |
| AAAAGCTTAA | ATTACAAAAA | TTCAAACAAA | TTTAAGCTAA  | TTTAAGCTAA | TTTAAGCTAA  | 26340 |
| TTTATTACAA | TAAAATTCAT | TCTTAATCTC | TTCCCACCTGA | TTAAGCATTG | CTTTTCTTAA  | 26400 |
| ATCATGATAT | GTGTTAAAAA | AAGCATTTCT | GTCTCTTAAA  | TTATTTTTTT | GATCTGATTT  | 26460 |
| TATTCTTTGA | AAATTTATGA | CTTTGTATGA | ATTTTCTGAA  | TTCTTGTTCT | GATCAATGTT  | 26520 |
| AGTCTTTGCA | AGCCTTATTA | GTATTGCGCG | GGAACCTCGG  | TCAATCTCTT | CAAGGTTGTA  | 26580 |
| AGTTCCAGCT | ACAGCAAATA | TTTGAGCTGA | TTTTACATAC  | TTTCTAATAA | GCTCTTCAGC  | 26640 |
| TTGTCTTTT  | ACAACCTCTT | TAAAAGAATA | CCCTTTTGCT  | AAAAGATTTT | CTGTATTATA  | 26700 |
| CTCAAACTT  | AAATTATCAT | TTGCAAGTTT | ATTTATCTCA  | ACAGATTCTC | TTAAGTCATT  | 26760 |
| GTGAGAATAA | TTAACAGTTA | AGTTATTACT | TGCACTTTTG  | AGATTTTTAT | ATTCCAAAAA  | 26820 |
| CTCACGAACC | AAAGAGTCGC | TTAAAACTTC | ATTGTTTTTA  | CTTTTAGACT | CTTTTAAATC  | 26880 |
| TTCTTGTTTT | TTGTCTGTGC | CTGAAGCCAT | TTTTTCCATA  | ATTACTCCTT | TTAAATAACC  | 26940 |
| AAACTTAATT | GTTCTTTTAA | ATTTTCTTTT | GCCTTGTCGC  | TTAGATTTTC | ATTTTTAATT  | 27000 |
| AGCTCTAAAT | ATTTAAAATA | AACATCAAGA | AGCAAATTGT  | CTTTTTGAAG | TCTTTGCTCA  | 27060 |
| TAGCTTAAAG | CTTCAAGCTC | ATTAAACTTC | ATATTTAATC  | TGTAATATTT | GTAAAGCTTG  | 27120 |
| AGATTGCACG | CATTAGCAAC | AGATTCTTGA | ACGCCTTTTA  | AATAATCATA | ATAATTGCTT  | 27180 |
| TTATCTCCCT | TGCCGCTGCT | GCCAAGCCCT | TTGACTTGCT  | CATTAAAGCT | TCTGGTTAAA  | 27240 |
| GGCTCTTTGG | TATCAGCGCC | AATTTTGTCT | TTAACAAGTT  | CAAATGCGTC | TTTTTAAAAAC | 27300 |
| TCTAAATCAT | ATTTTATTAC | TTCTAGGCGT | GCATTCTCTG  | ATGCTGTGTA | AAAAATTCCA  | 27360 |
| TCATTGTTTA | GAGTGTTTTT | AATCTTGCTA | AGCTCTCTGC  | TAAGCTCGTC | AGAGACGCTA  | 27420 |
| CTTAATGCTT | GAAAACTTTT | GTTTGGCTCT | TGAGCTTTAA  | AAAAGGTAGA | AAATATTTTG  | 27480 |
| CCTTTGCTGT | TTGCCAAAAC | ATTAATTCTT | TCTTTTGCAA  | TCTCTAAAGA | TTCAACAAGT  | 27540 |
| CCCACCAAAT | GTTGCTCTTT | GTAAAACAAA | AAATTATAAT  | TTCTTATTCT | TTTTTCTATT  | 27600 |
| TCTAAATAAA | TTTGTTCTAA | AAGACAAATG | TTAAGCAGCA  | AACTTTGCGT | GTAAGCAGGT  | 27660 |
| TCTTGCTCGC | CTAAAACATA | ATCATAATTT | TCATAAATTA  | TTACTCTGCT | TTTATCTATT  | 27720 |
| TTTACAACCT | TTGCTCTCTC | AAAATCATCC | GGGTCTTTTG  | AGTTAGAAAG | GTAAGCAGGT  | 27780 |
| TAACTAGAAT | CTCTTTTGTT | AATAATTTTT | TGAAAATCCA  | AATATTTAAA | ACCTGTGGGT  | 27840 |
| AATTCGCTGT | TAACCTTTTT | GCTTAAATCT | TCATCTTCAC  | TTTTGGGTTT | TACCAAAATA  | 27900 |
| TAACCTGCTC | CATTAAATCT | GTAGCTTATC | ATTGCTTCAA  | GAAGAGCTTC | TTTTAACTGA  | 27960 |

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|------------|------------|------------|------------|-------------|------------|-------|
| ACCTTTAACC | CCAAAAGAGA | CTTGCTGCTT | TCTTTCAAGC | AAGACTTTTC  | AAGCAGGCTT | 28020 |
| AAATTAATTC | CATTCTTAAG | TGCATCTTCT | GCGGTACTTT | CTATGTAGTT  | TCTAAAAAAA | 28080 |
| ATTGAATATC | TGTAAACATC | AATAGGATTG | ATTTTGGATT | TATTGTTTTT  | TATTTCCATT | 28140 |
| TTAAATTCGT | TAATCATTTT | TTTAAATATC | ATTATACATT | ATTATATCAA  | AAACAGTTTT | 28200 |
| TTATTCAAAT | TGTTATTATT | TGATATTAAT | TATTAACAA  | TATTGATATT  | CAAAATGTAA | 28260 |
| ATATTAAAAT | TTAAAATTGA | TTTAAAATTT | TATAAAAAAC | TAATACGTTT  | TAAAGTATTT | 28320 |
| ATGCTAATAT | TAATTAAAGA | ATATAAGTAA | AACTTACAAA | ATATTC TACT | TACTTTTGCT | 28380 |
| AGCATTGTTA | AAAAATAGAC | ATTGTAAAAT | GATATTAAAA | AGAAAATTAA  | ATTAATACTT | 28440 |
| TATCCAATCC | CAATAAATAT | TAAAAAGGTA | GAGAGCTGTT | TCTCTACCTT  | TTAATATTGA | 28500 |
| AATGCAGAAA | ATCTAATTAA | ACTAAAAATA | AAAAATAAT  | GTCTTCTTGC  | CTTCTATTCC | 28560 |
| CCTTTGAGCA | ATAAAAGATG | TTGCTAAAAG | AGATGCTCTA | ATTGCTTTTA  | TTAAAGCTCT | 28620 |
| GTCTGCTTGA | AATGTAGATT | TAATAACCAA | AAGTAGTCCA | AGGAGAAATT  | CTCTTGTTTT | 28680 |
| TAAATTTTCA | ATGCTATTAA | TCTCTTCTTC | GGCTGATTTT | ATTCCTTCTT  | CATCTTTATG | 28740 |
| TAAAAAATCA | ATCTCTTTTA | ACCCTACTGA | GTCAATTTCA | CTTACTGTGT  | GAGAATCAAA | 28800 |
| ATTGACTATT | GTCCAATAAA | ATACTTTTAA | AATCTTGTC  | ACAATCCTAA  | ATGTTATGGG | 28860 |
| AATGTCAAAA | TCAGAAATTT | TATCAAATTC | TAAAAGTAGA | TGATTGTTTA  | GCTTTTTGGC | 28920 |
| TAGATTGATC | GTAGAAACAA | GTTTTGATTT | TGATTTTTTG | ACCTTTAAAT  | GAGCATCATT | 28980 |
| TAAATTATTT | GCATTTAAAA | CCTTATTTAA | ATTGGTCTCT | ACTTCTAAAG  | CAGAATTAAT | 29040 |
| CACTTGAGTT | GATAATTCCT | TGGCAAATTT | AACATTATTA | AATTTAAAT   | CTTGTAATTT | 29100 |
| GCTCTTTGCG | TTATTGACTT | CACTCATAAT | AAAGACACTT | AAAAGTCTTT  | TAAAAAAGAA | 29160 |
| AAAGACAAGT | TCTCACTAGA | ACTTGCTCTT | AAAAAATCAT | ATCTCAAATT  | TAAACATTTT | 29220 |
| CATAATTTTT | CAAATTTTTT | AATTCGTTGT | TACTCTCGCT | TTCAGTAAGC  | ACTTTTTTAA | 29280 |
| TTACTTTAAA | AATCTCTTCA | TTGCATTTTA | CAGGTTTTTG | AACACTCTCA  | TCATTATCTT | 29340 |
| TTTTGTAAGG | ATCAGCACCA | AATGCATCAA | CTACCTTTTG | GAAAAATAAA  | CTTAAAGCCT | 29400 |
| CCCCTTTGCT | ATTTTTAATT | TTATAGCAAA | CATATTCCTT | AAAGCCTAAA  | GATTGTTGCT | 29460 |
| CAGTGGGGCG | TCGCTTTTTG | CTTGCATCTA | CTGCTTTAGA | AACAATGCTA  | GAAATATTGT | 29520 |
| CAAAAGAGCT | TATAAATCT  | TTTTGTCTGT | TAACATCCTT | AGAAAGCCAA  | TCAAAAAATT | 29580 |
| CTTTATAAGA | TTTTTCGTAC | TCAGCTTTTA | AAGCTTCTTC | TCTACCATTA  | ACACTCATTG | 29640 |
| CATCTTTTAA | AAAGACTTTT | AAAGACTCTA | GCTTTTCAGC | TTCTTCGGGA  | GTTAAAGAAA | 29700 |
| TCTCTTTGGG | AATCAAATCC | TTAACTACAT | CGCTAACAAC | AAGAGGGATG  | CCATTCCCAG | 29760 |

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|-------------|------------|------------|-------------|-------------|------------|-------|
| AATCAATTTTC | TGTAAGCGAT | TTAACATCGC | CAAAC TGCTT | ACAAGAAAAC  | ACCGCCAATA | 29820 |
| ACATTAATAA  | AATACTTATC | CTTTGCATCA | AAACCTCCGC  | TAAAATAAGT  | CGTCATTATA | 29880 |
| GTTCAATTTTT | TAGCATTATC | AAGAAATACA | AAAAATCAAT  | CTCTTTGTTT  | TATTCTTTAA | 29940 |
| AATTATTCTT  | TTTATCCCTT | TTTATCCCTT | AAGAACAAAA  | AAGAAATTAA  | AACTTAAATT | 30000 |
| TTTATTTCCCT | TTACAGGCCT | AAACATATAA | GTAAAGGTTA  | AAATTTTATT  | TGAAAAAAAA | 30060 |
| CAAAGAGGGA  | TATATATTTG | TCTAATGTTA | TAAATCAACA  | ATTCATTGAA  | AACTTCTTTA | 30120 |
| AAACTACAAA  | TAGGGTCTTA | AGGCCTTATT | TGTAGTTTTA  | AAATAAAAAA  | TGCGTCTTTT | 30180 |
| TAAGCCTTTT  | GCCTTAAATC | TCCTTTTAAT | GAAAAACAAC  | AAGCCTTTTG  | GGATTCCCAG | 30240 |
| CAGCAGAAAT  | AAAATACTTT | ACAAAAATAT | TGCAATATAA  | TTTGCTAATA  | AAAATTGAAT | 30300 |
| ATTTGAAATA  | AAAAAAGGAT | ATTCAATCAG | CTAAAGGAAG  | GTCATAAGGA  | TATGATAATA | 30360 |
| AAAAAAAGAG  | GACTTTTAAT | ACTGGGCATT | GCTACTGTAA  | TCTCGTGCTC  | AGCAATGTCT | 30420 |
| AAACCAAAAG  | ATGATATTGT | CTTTGGTGTT | GGAATTGGAA  | ACGAACCAAC  | ATCGCTTGAT | 30480 |
| CCACAATTTT  | GCAGCGATAG | GCTAGGTAAT | TTAATTATAA  | ACGAACTATT  | TGTAGGGCTT | 30540 |
| TTAAGGGGTG  | ACCCCAAAAC | GGGTGGATAC | AGGCCAGGAC  | TTGCAAAAAA  | TTGGGACATT | 30600 |
| TCTTACGACA  | ACACCTGCTA | TACATTCCAT | TTAAGAGACG  | ACATTTATTG  | GAGTGACGGC | 30660 |
| ATTAAAATAA  | CAGCAAGCAC | CATTAGAGAT | TCCTACATAA  | TGGCCTTAGA  | AAATGAGCTT | 30720 |
| GATGTGCCAC  | ATATTAACCT | ATTAACATCA | AAGATAAAAA  | ATGCACAAGA  | ATTTTACGAA | 30780 |
| ACAAAATTAA  | ATGCAGATGA | AGTTGGAGTA | AAGGTAATCA  | ATGAGCAAAC  | TTTAGAAATA | 30840 |
| ACTCTCTCTC  | GCCCAGCAAG | ATATTTTCTT | GACATGCTTA  | CACACCCAAT  | ATTTATACCC | 30900 |
| ATTCCTACGC  | ACATTGTTAA | AAAGTTTGGA | AACAAATGGA  | CAAGCTCAGA  | AAACATGGTT | 30960 |
| ACAAGCGGGC  | CTTTCAAGCT | AAAAAGAAGG | ATCTTAAACG  | AAGAAATATC  | TCTTGAAAAA | 31020 |
| AATGAAAAAT  | TCTATGATGC | TAAAAACGTT | GCTATTAATG  | AGCTCATATT  | TGTTACTATA | 31080 |
| AACGACACCC  | GCAGAATTTA | CAGTATGTAC | GAGCACAACG  | AAATAGATGC  | TATTTTTAAT | 31140 |
| AACATCCCCCT | TAAGCCTTAT | TAATGAGCTT | ATCTTAAGAG  | AAGATTTTTA  | TTCAGCTGAC | 31200 |
| ATTAATCAAA  | TTGGGTTTTT | TTCACTAAAC | ACAAATGTTA  | AACCTCTTAA  | CAATGTAAAA | 31260 |
| GTAAGAGAAG  | CATTGGCTCT | TGCGGTTGAC | AGAGAACTC   | TAACTTACAG  | AGTTCTTGAC | 31320 |
| AACAACCTTA  | AAGCAACAAG | AAAAATAAGC | CCTAATATTA  | ACAAC TATAA | TTATGGGAAA | 31380 |
| AAGCTTAAGC  | CATACAACCC | GCGAAAAGCA | GAAAAGCTCT  | TAGCCGAAGC  | TGGATATCCA | 31440 |
| GATGGTAAAA  | ATTTTCCAAC | TCTTACAATA | AAATACAATA  | AAAATGACCT  | TGAAAAAGAA | 31500 |

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|------------|------------|------------|-------------|-------------|------------|-------|
| GTTGCTAGTT | TTATTCAAAG | CCAATGGAAA | AAAGTTTTTA  | ATATTGATGT  | AGAAATTGAG | 31560 |
| CCTGAAACAT | GGGTCAACCA | CATATCAAAT | ATTTTAAAAG  | GTCAATATGA  | GATCTCAGTA | 31620 |
| AGGTCCTGGC | AAGGAGATTA | TTTAGATCCC | ATGGCATTCT  | TTAATATATT  | TGAAACTAAA | 31680 |
| AACTCACATT | TTGCATCTTA | CGGATATTCA | AATCCTGAAC  | TTGATGAGCT  | TATAATAAAA | 31740 |
| TCCGATCTTG | AAGAGGATGA | AAAACTAAGA | TTAGAAATAT  | TAAAAAAGAT  | AGAAGAAATA | 31800 |
| ATTATTGAAA | ATGATTATCC | AATAATTCCA | ATATACAGTG  | TTGCGGGAAA  | CTATCTTTTT | 31860 |
| AAAAACGACA | AATGGCTAGG | GTGGAATACA | AACAATTCAG  | AAAGATTTGC  | CCTATCAGAA | 31920 |
| ATAAAACCTA | TAGAAGAATA | ACTGATTTTT | AACTTTTTTC  | ACAAATAGGG  | TCAAATTTTT | 31980 |
| GACCCTATTT | ATGAAAACTT | ATTTTTGAAT | TAGTGCTAAA  | GCACTCTCTT  | TTAAATAAAT | 32040 |
| CAATCATTTT | AAAACCTTAT | TAAAGTCAAT | GCTGTTACTA  | AGAATGCAAC  | TACATATTTT | 32100 |
| TCTTAATTTT | TCATCTATAT | CTGAATATTT | TTGATTTAAA  | AGTTTCAACT  | CTGGCTGTGG | 32160 |
| ATCAAGAACA | TCATAATTGC | CTACACTTAA | CATTTTAAGC  | TTACTTAAAG  | TATTGCTGCT | 32220 |
| TTTTTCTACT | AACCCGTGCT | GTATTTTTTA | AATCTCTAAT  | ATTTTGTTTA  | AAAGATTAAT | 32280 |
| CTTTTGCTCA | CTAGATTCGC | TAAAAAAATT | GCCAACTTTA  | ATCTCGCTGT  | AATTAGATAT | 32340 |
| CCTGGAGCTT | ATTTTGTCAG | TCAAGCTCTT | AAATTTTCTT  | TGAATTTTTTA | AAATAGCATT | 32400 |
| TTCTCTTTCA | GCTAAAGAAA | GCTCAAAAAA | ACTTAAATCA  | TATTTATTAC  | AGTTATTTTC | 32460 |
| TTTCATACCA | GAAAAATCAT | TTAAATAACA | AGAAATTACA  | GCTACTGAAA  | TGATATATAC | 32520 |
| ATAAATATAT | CTCTTCATGT | ATATTCTCCT | AATGAAAATT  | TAATTTATTT  | CAAAAGTGCA | 32580 |
| AAATTATTTT | AAATAACTAA | AAAACATACA | AATTTTTTCAT | GAACCTATTA  | TTCAATTTAA | 32640 |
| ATATATTATT | TAATATTAAA | ATTACTTAAA | AATTCTTAAT  | AAGTTTAATA  | AACTTAATTT | 32700 |
| TTTCTAGTTA | ATTTAAAGCT | TTCTGTTTCT | ACGATATCGC  | TCTCTGGCTC  | TTAATTTAAG | 32760 |
| TTTTTCTCTG | TTTTTCTGAT | AATACTCTCT | GTTATAATCT  | GATGCTTTTT  | GCTTATTTTT | 32820 |
| GGCCAATAAA | CTTTTATTGC | TCGACTTATT | AAAAGAACTA  | CAACTTAAAA  | GACATATTAA | 32880 |
| AAAAAAAAGA | AGACCGGTAA | TTCTCATATT | TCACTCCCCC  | AGAAATACAT  | TTGAATAGAT | 32940 |
| TGAAAAAATA | AATCTTAAAA | ATGATTACAC | TAGGCAAATT  | TGACAAACTT  | AGCAAATTTT | 33000 |
| TCTAATGCTA | ATTTAATAAA | ATCTAATCAA | AATTGATGTA  | AAATAAACTC  | TCTTTTAAAA | 33060 |
| AAAATTAGCT | TAAATATTTT | AACTGAGCT  | TTTTTTTCAA  | GTCAAAATTA  | TGCTTCCAAA | 33120 |
| AGCATTACAA | TTAAAAAAAT | CAAAGTTTGA | GAACAAAAAT  | ATAGAAAAAA  | TCTGTTTTTC | 33180 |
| ATAATAGACT | CCTTAGTGGT | AAAATAATAA | AAATTAAATT  | ATAAATCATA  | TCAATAATAT | 33240 |
| TTTCCAAAAA | AATAAACTTT | AAAAAAAATT | TTTCAAAATC  | TTTAAAAGAT  | TGAATATTAA | 33300 |

|            |             |             |            |            |            |       |
|------------|-------------|-------------|------------|------------|------------|-------|
| TTTTATATTT | TTTACAAAA   | TTTGCATTTT  | TTAATATAAA | AATTTAATTG | TTTTAAATAT | 33360 |
| TTATTTAATA | TTTATTTAAT  | ATTTATTTAA  | TATTTATTTA | ATATTTATTT | AATATTGATT | 33420 |
| TAATATTGAT | TTAGCCTAAA  | TTCAAGGCAA  | AAAAGAATTT | TTAGCAAAAT | CAGCACAAAA | 33480 |
| GACAAAAACT | TTTAAACAAT  | TATTAATTAC  | AATAAACTTA | AATTGATAAC | TAAAAATTTA | 33540 |
| GATAAAATTA | TAAATATTTA  | AACCTGCCGA  | AATGAAATAA | TTTTTCTTTA | TAATTTAGCG | 33600 |
| TTAAAAGAAG | ATACGCATTT  | GCAAGAGAAT  | CAAGCGCATC | GTCTTTTGTT | TTGCCATCTC | 33660 |
| CTTTGTAGCT | GTAAATATCA  | GATATTACAT  | TTTTACTTAT | TATTTTTTAA | AATTCTATTT | 33720 |
| TGCGGCTTTC | AAACAAAGGA  | ATAAGCGCGC  | ATATTCTTTT | AAATTTATTG | CTTAAAGGTT | 33780 |
| TTATTGGTGC | AACTTTAAAA  | TAGTGA CTGC | TTTTGTTTCT | CAAGAAAAGA | ATTGTTTTAG | 33840 |
| TTAAAATTCC | ATCCCCCTTG  | GTACTGTCTC  | TCTCCTCAAT | GTAAACGGTA | TTTACATTGA | 33900 |
| AATTTTCTAT | TAAAAC TTGA | ATGGAAGCAA  | GCATTAAACT | ATCACTTACT | GGTTTTTGGT | 33960 |
| CTTGATAAAT | ATATGCATAA  | AAC TTCTCAA | AAGTGCGCTC | TAAAACACAA | ATAGCTGTAT | 34020 |
| TGTCTCCACC | CACTGAGAAT  | GCAGGATCAA  | TGTACATTAT | TGGGCTTTTA | AATTCATAAT | 34080 |
| CTTGATTGAA | AATCATCTCA  | TTAAATAGCG  | TAGATTCATT | TAAAATCCAC | TCCCCGTAAA | 34140 |
| GCACACGAGC | CCTATAGGCG  | GGAAAACGCC  | TGTAAAGTTT | TTCCTGAGTT | TGAATAAAAT | 34200 |
| CTGCTGAATT | TAAAGGATTG  | TCATAAGTTG  | TAAAATTATA | TGTCTTAAAA | ACATCTGTAT | 34260 |
| TTTCAATATA | ATCGGT TTTA | AAATAATGCG  | CAGGGCTTTC | CGGATTTGTA | TCAAAAATAA | 34320 |
| TAATTTCTTT | ACCCTTTCTA  | AGCCTTTTTA  | TTACTTCAAG | TAAAGTTTCT | CTGTGAATTA | 34380 |
| CTGTTGCTTC | ATTTACATAA  | ATTATTGCAC  | TATTGCCCCC | ACGAATCTTG | GAAAAAGCAT | 34440 |
| CTCTGTTTTT | ACCCCGTAA   | ATATTAAGCT  | TAAGACCTGC | TATCTTACAA | AAAGACTGCC | 34500 |
| CGCTTTTCTT | TTTCTCGTAA  | TCAATTCCCA  | GCAAGCTGCA | AATTTTCTCT | ATTTGCTTTA | 34560 |
| CAGTATTTGT | CATCAACAAA  | CCAATTGAGT  | TGCCTATAAT | AAAATTATTG | GTATCTTGCT | 34620 |
| CATAAAAAGA | TTTGT TTTCA | ATAAGCTTTT  | TAACAAGCAA | ATATGAAGCT | AAAAACGTCT | 34680 |
| TACCACTTGC | AATCCCACCG  | CTAAATATTA  | CTTTTGAATA | ATTGTTACTT | TCTATGTCAA | 34740 |
| AAAGAACTTC | CTTTTGCTTA  | GCAGTTAAGT  | ATTTATTTTC | AAAATCTTTA | AAACAAATTT | 34800 |
| TGGTTGGTTT | TGGCTTAATA  | TAATCCAAAA  | TGTTAATATT | AACTTATTTT | TTAAACTTTT | 34860 |
| TCTGAAGATT | GAGAAACGCT  | AATGATCTTA  | AGAATTTCAA | ATTTTACTCC | AATTTTAAAT | 34920 |
| TCTTACTACT | TAAAACAGAT  | TTAAGCTTAA  | CAAGAGTATC | AAAATCCTCT | CTCATGCAAA | 34980 |
| TAGTAATAAG | TTTTTTTTCA  | ATCTCTTCTC  | TCTTTTAAAT | CCTATCAGCA | AGCTCTCTTT | 35040 |

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|-------------|-------------|-------------|-------------|------------|-------------|-------|
| CAAGGCTTTC  | TTGGCTTTTA  | AGCCCTCTTT  | TTTTATTGGC  | GCTAATCTCG | CTTTGAAGTT  | 35100 |
| TGCTAATTTT  | TAAATCCAAA  | ATTAATACTT  | CCTTTTTTAT  | TGCCGCTAAA | CTGAGATTTT  | 35160 |
| TACATCTGTG  | GTGGGAATCA  | ATAAAGAAG   | AACTATCTC   | GTAAAATAAC | CTTTCAGCCT  | 35220 |
| CATTTTGGC   | ATTTTCAAGC  | TCACAGGCCT  | TTTTTG TAGC | AAGCAGCACT | AAATTGTTAA  | 35280 |
| AATTGTCCTC  | ATTAAAAGAC  | ACTTTAGTAG  | TGCTTTCTTC  | TGCCAGGTCG | CTAGAAAAAG  | 35340 |
| AATTCCTTTT  | ACAAACAGAA  | TCACCGGATT  | TAAAAATATT  | ATTCGGGGCT | TTTGCTACAA  | 35400 |
| AAGATTCACT  | AACACCTAAA  | ATTTGAGCGA  | TATCTAAATC  | TTTTAAACCT | TTTTTAAATA  | 35460 |
| AAAAATATA   | TTCTTCTTTT  | CTATTTTTAA  | ATATCATTAT  | TTTATTTTAA | TTAAGTTCTT  | 35520 |
| TTAAAACTC   | AATAAAAATT  | AATGTTTTTT  | ACCGTGAGTA  | ATTTAATTAA | AGAGATCTAT  | 35580 |
| TTTTTAAATA  | TAATAAAATT  | AATAAAAATA  | AGTGGTAAAA  | GGAGAAGGGA | ATATTTAAAA  | 35640 |
| CAAATATAT   | TCTGTTGCCA  | GCAATAACAT  | TATTGTGTAA  | TATGTATAGC | GAGGTATTTA  | 35700 |
| CTCAAGAGCA  | AGAAACAAAA  | ATCAAAAAAA  | TCGTTGT TAA | CGAACAAAAT | GAAAGATTAA  | 35760 |
| AACGCTTAAT  | AAAAGCTTAT  | GGAAAAATAC  | ATCTAGTAAA  | AGTTTAAAAG | ACATGACAAT  | 35820 |
| TAAAGTAAAA  | AACAAAATAG  | CCTCAGGAGC  | AAGCAAAAAA  | GGATACTTCT | TTAAAGGCCT  | 35880 |
| AAAGGGTATT  | TTTATGCCTT  | TTAAGCCTGC  | CAATCCTTAT  | ACTCCTAATT | AAAAAAAATA  | 35940 |
| AAGCAATATC  | AAAATAGTCA  | AAATACTTGA  | AAGAGAAGCC  | AATAAATTGC | GGGAGCATGG  | 36000 |
| CTTCTCTTTT  | ATTTTAAAGA  | CCTAATTATT  | TTAGATCTTT  | GATTCAATTT | GCAAAATAAC  | 36060 |
| CAATTTGAAA  | TATTTTGGCA  | AACTGGAAAC  | AAGTCTTAAA  | ATCACAAGCC | AGATTGCATA  | 36120 |
| GCAAGCTTGT  | AATTCCAAAC  | AATGTTACTG  | CTATATTTGC  | ATAAAACAAA | TTCACTACTAA | 36180 |
| CAATAAAAAAT | AATAAAAAATA | AAACTTAAAC  | TGATACGCTT  | TTAAAATAAA | AGTTTTAAAC  | 36240 |
| TTTAGTACAA  | ATCTAGGCAT  | TATATTAAC   | TTTTACATCA  | ACATACTAAC | TAATTTATTT  | 36300 |
| TATTTTATTT  | TTCATAAAGT  | GGGCTAAAAT  | TTAAATTTAA  | CTAAATTTAA | TAGAAGGAGG  | 36360 |
| AAAAAATGAA  | AATTGGAAAG  | CTAAATTCAA  | TAGTTATAGC  | CTTGTTTTTT | AAACTATTGG  | 36420 |
| TCGCATGTAG  | TATTGGATTA  | G TAGAAAGAA | CAAATGCAGC  | TCTTGAATCG | TCCTCTAAGG  | 36480 |
| ATTTAAAAAA  | CAAATTTTAA  | AAAATAAAAA  | AAGAAGCCAC  | GGGAAAAGGT | GTACTTTTTTG | 36540 |
| AAGCTTTTAC  | AGGTCCTTAA  | ACCGGTTCCA  | AGGTAACAAG  | TGGTGGACTA | GCCTTAAGAG  | 36600 |
| AAGCAAAAGT  | ACAAGCCATT  | GTTGAAACAG  | GAAAGTTCCT  | TAAGATAATA | GAAGAAGAAG  | 36660 |
| CTTTAAAGCT  | TAAAGAACT   | GGAAACAGTG  | GTCAATTCTT  | GGCTATGTTT | GACTTAATGC  | 36720 |
| TTGAGGTTGT  | AGAATCGCTA  | GAAGACGTTG  | GAATAATAGG  | CTTAAAAGCC | CGTGTTTTAG  | 36780 |
| AGGAATCTAA  | AAATAATCCT  | ATAAACACAG  | CTGAAAGATT  | GCTTGCGGCT | AAAGCTCAAA  | 36840 |

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| TAGAAAATCA  | ACTTAAAGTG | GTTAAGGAAA | AACAAAATAT | TGAAAATGGT | GGAGAGAAAA | 36900 |
| AAAATAATAA  | AAGCAAAAAA | AAGAAATAAA | TATTAAAAAT | ATTGTCATTA | GAATGGACTA | 36960 |
| AAAGTAAAAT  | TTTTAGCTCG | TCCTAATATT | TACAATTTAA | TAATATTGGT | TTATTGCTTT | 37020 |
| TACTAAAATA  | CAAAAAAAGG | ATAATGTTAT | GATTAAATGT | AATAATAAAA | CTTTTAACAA | 37080 |
| TTTACTTAAA  | CTAACTATAC | TTGTTAACCT | ACTTATATCA | TGTGGACTAA | CAGGAGCAAC | 37140 |
| AAAAATTAGA  | TTAGAACGAA | GCGCTAAAGA | CATTACAGAT | GAAATAGATG | CAATTAAAAA | 37200 |
| AGACGCTGCT  | CTTAAGGGCG | TAAATTTTGA | TGCCTTTTAA | GATAAAAAAA | CGGGTAGTGG | 37260 |
| GGTATCAGAA  | AATCCATTCA | TACTTGAAGC | AAAAGTGCGA | GCTACTACAG | TAGCGGAAAA | 37320 |
| ATTCGTAATA  | GCAATAGAAG | AGGAAGCTAC | TAAACTCAAA | GAAACTGGAA | GTAGTGGTGA | 37380 |
| ATTTTCAGCA  | ATGTATGATT | TAATGTTTGA | AGTCTCAAAA | CCATTACAAA | AATTGGGAAT | 37440 |
| ACAAGAGATG  | ACAAAAACAG | TCTCAGATGC | AGCTGAAGAG | AATCCTCCAA | CTACAGCTCA | 37500 |
| AGGAGTGCTT  | GAAATTGCAA | AAAAAATGAG | AGAAAAATTA | CAAAGGGTTC | ATACAAAAAA | 37560 |
| CTACTGCACC  | CTTAAAAAGA | AGGAAAATTC | TACTTTTACT | GATGAAAAAT | GCAAAAAATA | 37620 |
| CTAATAAACA  | ACATTTTAT  | AATCAATTAA | AAACAATACC | CAACCAAATC | CATCTGGTTG | 37680 |
| GGTTTGGGCT  | TATAATTTAA | ATGTTAGCTT | GCAATTAAAA | TCAACAAATA | TTAAACTCTT | 37740 |
| CGCCCGATAA  | TCAAGACATA | AAATAAGTTA | AAGTTACAAC | AATTCACCTA | AAAGACTTAG | 37800 |
| AATTTAAAAT  | GACATTAATC | TTTTCAAACA | AAATAATTAA | ATATCCTTTT | TGATGTTATT | 37860 |
| TGGAATTTCT  | TTCTTTTAGA | CTTTAAATCA | AGACTGTCGT | AAAGCACCTT | ATTATTATCC | 37920 |
| ATTACAAGAA  | AATGCACAAA | AACCTGATCT | TTACCTTAA  | TCTCTGTTAT | TTCAAACCTC | 37980 |
| CTGCCGGCTT  | TAGGCAAATA | AAGTGGACTC | TCGTATCTAA | CCTTGAAAAA | TATTTTATAA | 38040 |
| CAACTAAGAA  | TTTTACATGG | ATTTAAAATA | TAACAATCCT | TTCTAATGTA | GCCTAATTCC | 38100 |
| AAAAACCGCT  | GATAATTTAA | ATTAACGTCT | TTTGCTGTAA | AATCAAACCC | CGTTAAAACA | 38160 |
| AATATCCAAT  | AGTGCAAAGA | CAAAAAATAA | CATCCGGACT | TTTGAACGTC | TTTAAACAAT | 38220 |
| TCTGCATTGC  | TTTGTAATAT | TTTCTCAATA | AACATTTTAA | AATACACAAT | TTTTAAATAT | 38280 |
| AATTTTTTAAA | TAATTAAACA | TTCCCGACCA | ATTTTTATCT | AACTTTTAGA | ATCTAAAAGC | 38340 |
| TTAATAAGAA  | AACATTTGGG | TTTAAGAATC | TTTAATATTG | TTAGAACCAA | GCCACTCAAA | 38400 |
| ACCATTGTTT  | TAATGGCAAA | AGTTTCAATT | AAAAGTTTGT | AGTATTCTTT | CCTTTTGATC | 38460 |
| TTATTAAGCC  | TTTTCATCTT | AACCCCTAAT | ATAAGTTTTT | TACTAATACT | ATAGTATAAA | 38520 |
| AAAATTTATG  | TTTTGTAAAT | ACTTTTCTAA | ATTTTTCCAA | AATTACTGTT | AAAAAATAAA | 38580 |

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| AACTTCAAAT | CAAAAGTTAA | AGGGTTTATT | GGGGATTCTT | TTAAAAGAAT | CCCCAATAAA | 38640 |
| CCCTTTAAGG | TAACAGGTCC | TTATATTAAG | AGCGACACAT | TGCGTGTGAG | TCTGTACCTA | 38700 |
| TAAAGTATAC | ACTAACTTTT | CAAGTTTTCG | AAATAAATAT | TTCATTTTCG | TTTATTTCTT | 38760 |
| AAAGTTTCAA | ATTCTTTAAT | TATTTTAAAT | AAAAAATCTT | TTTCCTTAAA | AAAAATTTTC | 38820 |
| TCTAAAAGAA | AGCTTGTAAG | CTTGGGATTT | TTTTTATAAA | AAGAATAAGC | TTCTTCCTTT | 38880 |
| TTAAGCTGAA | ATCTTAGTGG | TTTTATTGGG | TTTTGATTAG | ATTTTTTTAA | ACTTGGACTT | 38940 |
| TCTTTTGTTT | TAAGAAGACA | AATTGTATCA | TTGATTCCGT | TTTTAACTAC | ATACTTTTCT | 39000 |
| TCAATAAGCC | CTTCTTCTAT | TGCTGTTGCA | ATTTTAAGAT | ACTTATAAGT | TTGAGTTCTG | 39060 |
| GCAAGTCTAT | AGTCTTTTGC | AAAATCATCA | AAACTGGAAT | AATTGTCAAG | TTTATAATAT | 39120 |
| TCTTTATCTT | TAATTTCTTT | TAAAACCTTC | ATTGCTTCTA | TTTTGCAATA | AATTTCTTTT | 39180 |
| TGAAAATTAA | TGTTTAATTT | TTCTTTAAGT | TTATTATAAT | GAACAAGTGC | TTGCTCTTCT | 39240 |
| TCTCTAACGC | TTTCAGATAA | ATTTCTTTTA | TTTATCTTTA | TCTCCACTTA | TAATCCTCCT | 39300 |
| TTACAGCTTG | AGTACACTTA | GTGTACGTAA | CTTGATTTAT | TTAAAAACGC | AGTAAGCGTG | 39360 |
| TTTTGGTACT | CTATTATGTA | ATCCTTCGTC | AAATCAAATC | TATCATTTTT | TGCTATTCTT | 39420 |
| TTGTTTAAAT | CTTCTCTCTC | AGATATTGTG | CCTAAGAAAT | TATTGTTTTT | TTCTAAAACC | 39480 |
| TTTAAAAGTT | CTCTGTGCGT | GTTGTTTCTT | TTAAATTTAG | TATTAATTAA | ATACATTGGC | 39540 |
| AAAGTTAATA | ATAACTTGTT | CATAAAAAAA | GTAAATAAAT | CTAAACTTTC | AACAGCCCAT | 39600 |
| TTCTCTGCTG | TTATTGGTAT | TATTATGTAA | TTGCTACATA | CAAGGGCATT | TGTTAGGGTA | 39660 |
| AAATCTAAGC | TGGGATTTGT | ATCAAGTATT | ATATAATCGT | AATGATTACT | TAATAACTTT | 39720 |
| AGCTGTTCTT | TTAATTTAAA | TTCTTTATAT | GGAATAGATT | CTGAATTGAA | TTTATGTAAT | 39780 |
| GTAAATAAAC | TTGGAATTAA | ATCCAGATTT | TTGTTAATTG | TGATTAATGC | ATTATCTATG | 39840 |
| TGTAAATTTG | ATATTAATAC | CTCATATATA | TTTCTATTTA | TTAAATCTAT | ATTATTGTCC | 39900 |
| TTAATTTTAT | TAAAAAATA  | GCTTGTTGTT | GAAGCTTGGG | TATCAATGTC | TATTAAAAGA | 39960 |
| ACCTTGCATT | TGATTGAAAG | CAATGTGGCA | AAAATTAAAC | TTGTTGTGCT | CTTGCCAACA | 40020 |
| CCACCCTTTA | TGCTTGCGAT | TGTTATTACT | TTTGTCTCTT | TTTTATCCAT | TCAGGAATAA | 40080 |
| TTCCCCCTTT | TGACAATTTT | TTGCTATAAA | AAGCGTAGAG | TTCAGTTTCT | AGTTCTAAAA | 40140 |
| TAATATTTAA | TAGTGTGTTG | TAATAGGGGC | TGTTTACCCT | ATCCTTTTAA | AGTAAATAT  | 40200 |
| GAAGACCGTT | TAAATAACAA | AAAACAGAAC | CTTTTTTAAA | CCTAAATTCA | ATGTATTCAC | 40260 |
| ATTTTCTAAG | AGTGTAAGTT | TCTTTCTTGT | TGAAATTCTT | TACAATAAAT | GCTTTGTCAA | 40320 |
| GTTTTCTTAT | TCCGTAATAA | ATTCCCATAA | ATTCATCATC | TTCTCTTACA | GAGAATAAAT | 40380 |



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| GAAACATGCT  | TATGTCTTCT | ATGTTAAAGA | TTCCCCTTAA | AGAAATGAAA | AATTTCGTAG | 40440 |
| GTTCAATTCTT | GCTTATTCCA | AATGTATAAA | AGTCATTAAA | GATTTTAGTA | TGGTATATCT | 40500 |
| TTCTACCCCTT | AACCTCCTCA | ATCTTAGAAA | AAACGGTAGC | CTTTTTTCCT | TTTTTGGCCT | 40560 |
| TTGGCTTGTT  | GTCTGCGTCC | AATTTTAACT | CTTTTTGCTT | TTGCTTTAGT | CGTTCAAGTA | 40620 |
| AAGCCGTCAT  | TTTTTTCCTT | TTTCCTTAAT | AGTAAAGCCA | AGCTGTACAT | TTCTCCCTA  | 40680 |
| GCTCACTATT  | TTAATCAAAT | TATTATAGTA | GGAATTGTCA | AATACCTTAC | TATATTTAAG | 40740 |
| ATCAGGCTCA  | TTCTCAATGA | ATTTTTTTAA | AGTAGGAATT | AGCTTATCAT | TATCTACTTT | 40800 |
| ATGCCTCAAC  | TGTTCTAATA | ATATACTAAA | AATGTTGTTT | TTTATACTTT | TTTGTCTTAC | 40860 |
| CATTTTATCT  | TGGATTTTGG | GGATCTCTGT | TTTTGCTCTT | TTTACGAGCT | TTTCTAAATC | 40920 |
| TGGATATTTT  | TTGTGTTCTA | TTATGAAATG | TGGTTTTATT | TTGTAAATTT | CGTATGTTTT | 40980 |
| GCCAAAAAAC  | TTTTCAAGAT | CTTCTTTTTT | ATATTGTTCT | TTTTCTAATT | CTTTTATTTT | 41040 |
| TTCTTCAAGT  | ATTTTTTTTA | GAATTTTCGT | TTTGTTTTTA | TATTTTTTTT | CCGGTTCCTT | 41100 |
| TATTTTATGT  | ATTATTCTTT | TATATCCACT | GTTTCTGAAA | AATTTCACAC | GATATCCTGG | 41160 |
| GTTGTTTATA  | TTTTCTTTTA | TTACATTTGA | TATGTGCTTT | TCAATCTTTT | TAGGATCTAT | 41220 |
| TTCTTTTAGG  | TCATTTTCAA | TGTGTTTTAG | GTTTCTTAAA | TGATAGATTT | TAGTGCTGTT | 41280 |
| TGTTGTTTTT  | AAATTCATTA | TTAAAGCCGG | AATTTCTGTT | TTGAAGTTAC | ATTTACTTAA | 41340 |
| ATATTTTTTT  | ATTATTTTAT | TATTTGTTGT | TTTTTTGGAA | TTTTTGTTGA | TATTTCTATA | 41400 |
| TTCTTTATAT  | TTATATATAT | TATTAGTATT | ATTAATACAC | TCCCATTTAA | CACTACTATT | 41460 |
| TATTTGATTA  | AATTTTTTTA | TTCTTTGCGT | AAATTCGTTA | ATTTTATTTA | TTATTTTTTC | 41520 |
| TTTAAAGTAT  | GTGTTAATTA | TCAAATAGCA | TTTTTCTTTT | TCGTATTTAA | GTTTATAATA | 41580 |
| AGTTTCACTT  | CCAGAATTTT | TTCCCAAATG | TTTACAGTAG | TTAGCGTGA  | CTTTAAATTT | 41640 |
| TTTCTCTAGT  | ATGTATAAAT | AGTTTTGTAG | TGTTTTGAGC | TTTATGAGTT | TTTGTTTATT | 41700 |
| TCTTTCAAGG  | TTTTTATTTA | GTAAATAAAG | TATGTTTTTT | TGTGTGTATT | TTTTAAAGTT | 41760 |
| TAAGTTGATA  | AAGTTAAGGG | TAGAGATTAA | TACAATCAAG | TTGTGTTGGA | AGTTCATTGT | 41820 |
| GGTTTTTTTT  | ACTCTTTTTG | TAGTGTTTGG | TGATTTCTTT | TTTAATGTTT | TCAATTTTAT | 41880 |
| ACTCCTAATA  | TAAGTAGTTT | CTTTAATTAT | AATTTAATTA | ATAGTACAGT | TTCTTAAAAA | 41940 |
| AGTAAAGTAT  | TTTTATATAA | AAAATAAAAA | AAAGTATATT | TAATACATAT | TTGTAAATAA | 42000 |
| TACTTTACAA  | AAGTAAGTTT | TTGTAATAAA | ATATAATAAA | TAATAAACTT | ATATTAGGAG | 42060 |
| TAAATTATTT  | TTACGCTTTA | ATTTTTATTT | AAAATAGTGA | GCTTATTAGC | GATGGGTTTA | 42120 |

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| ATTTTATTAA GAATTTAGAT TATTTTATTT ATTTATCCTT CATTCAAGAG TTGGGCTTGG  | 42180 |
| GTGAAGGAAT TATCCCCATT AATTTTATTA AATTTTATGC ATTCAGTGTA TTAGCGCTTT  | 42240 |
| TTATTTTGAT TTAAAGACT TAAAGGTAA GGACCTAAAT AGCTTGACTT ATGCATTATT    | 42300 |
| GTATTTTCTC TTTTAAAAA GAGAAAAAGC CTCCTAAGAG ACTTTTTCCTA GAAGTAACAA  | 42360 |
| ATTGAAAAAT ATATAAATTC AATTTTATAGG TTGTAATAAA CCCTTCCTAC ACTAGCTGAT | 42420 |
| GCCTTGTAGG GGGGTTTACT TATATATTAT TTTAAAGCGT TTTTAAGCTC TGAAAGATTT  | 42480 |
| TTAATTTTAC TTGCTGATCC TTCTAGGCTG GTTCCAGCTG TGTGTATTG TTGTACTGTA   | 42540 |
| ATTGTACCAT CTGTTAAGAA CACCAAATCT TTAGTTTTTT TGCTGTCAGC ACTAATTGTT  | 42600 |
| AAAGTGCTAG TACTGTCTTC CCATTTACCT GTTTTTTTGT TAGAACCTGC AGTGTCATTC  | 42660 |
| AAAAAGACTT TTAATTTTCC ATCTTTTTCA ATTTCTCTTT TTAGAGTAAC AGTACCTTCT  | 42720 |
| TTAATTTCCA CTGTTGTTTT TCCGCCTACA AGACTTCCTT CAAGCTTAAT GCTATTTTTT  | 42780 |
| AGAGTTTCTA CTGCTTTTGT AGCATTGTCA GCATCTGTTA TTTGTGAGTA TTCAAGTGTA  | 42840 |
| GTTCCGTTTG ATCTTGTTAA TTTCTTTGAG TCTAATTTAT TAGCTTTGAG AGTTTCCTmT  | 42900 |
| GTTATTGACC CCTGTTTTTT AGTAACTTTA CTTGAAATTT TTTGGTTGCT GGCATCAAA   | 42960 |
| GCTTCTAAGG TTAATGTGTT TAAATCAGCA GAACTGTTA ATTTTACTTT ACTCTGTCA    | 43020 |
| GGCTTTGAAC CTTCAAGGGT TCCAGAACCA TTGTTTTTAT CGGAAGTTCC TTTAAGTTCA  | 43080 |
| ACCTGATCAA TTGTTGCTCT TAAATCATAT TTGCCGAGC TATTTTTTTC TTTGCTTACA   | 43140 |
| AAAATTTTAT TACCATTAAA CAAAGACACT GAGTCTTCTG TCACCGCAGG AAGGTCTTGT  | 43200 |
| TTAGCGTTTT GATGTGATTT TTTACTAGAG TCTTCAAGGT TTAGATCATT TTCTTTTTGA  | 43260 |
| GAACCAATTG ACTCAGCACC TTTTGTGCA CATCCTATTA AAGCTAACGC TAAAGCAAAT   | 43320 |
| CCTATTAATA ATCTCATAAA TTCTCTTTAT TTTAAAGCGT TTTTAATTTT ATCAAGTTTT  | 43380 |
| GTAATTTCAA CTGCTGACCC CTCTAATTTG GTGCCATTTG AGTCGTATTG TTGTACTGTA  | 43440 |
| ATTGTGTTTT CTTTTGTAAA CACAAGGTCT TTAGTTTTTT TACTGTTTAC AGTAATTGTT  | 43500 |
| AAAGTTGAAG TGCCGTGAATT CCAAGCTGCA GTTTTTTTAG TAGCAGCACT ACTGTCAGTG | 43560 |
| TCATTAAGTT CAACTGAAAC TTCCCCAGAT TTTGAAATAT TTTTGCTTAA AGTAACAGTT  | 43620 |
| CCTTCTTTAA CCACCAATGT TGTTTTTTCA GCAGTTAGAG TTCCTTCAAG AACATAGCCT  | 43680 |
| TTTAAACCT CTTTAGCTTT TCCAGATCCA TCGCTTTTAA TTCCTGTGTA TTCAAGTCTG   | 43740 |
| GTTCCGTCTG CTCTTGTTAT TATTTTTTCA GATACTTCAC CTTTTTCATT GAATTTTTCT  | 43800 |
| TCTGTTGATG ACTTGTCTTT GGAAGTTACT TTTTTTGATA CTAGTGTTTT GCCATCTTCT  | 43860 |
| TTGAAAACTT CAAGTGTGGT TTGACCTAGA TCGTCAGAAA TTGTTAATTT TACTTTACTT  | 43920 |

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| TTGTCAGCTT TTACGCCTTC AAGTACTCCA GATCCATTGT TTTTATCAGA AGTTCCTTTA  | 43980 |
| AGCTCAAGCT TGTCTACTGT TGCAATTAGA TCGTACTTGC CGTCTTTGTT TTTTCTTTG   | 44040 |
| CTTACAAGAA CTTTCATTTT ACCAGGCAAA TCTACTGAAA CGCTGTTTTT CTCGTCAAGG  | 44100 |
| CTGCTAACAT TTTGCTTACA TGCTATTAAG GCTAATATTA GACCTATTCC CAATAAATAT  | 44160 |
| TTTTTCATAA TATATTCTCC TTTTATATTA ATATAACTTA ATACAAGTAT AATTATATTA  | 44220 |
| TAAGATTAAC AAATAACAAA TAGAAAAATTG AAAAAAATA AAATGATAAT AACTTCAATT  | 44280 |
| AAGTTTGGTT TTAATTAAGT TTGGTTCTAA TTAAGCTTAG ATTTAATGTA GATTTTTTAT  | 44340 |
| TTAAAAAAG TCCCAGTTTT GGGACTTTCA GGAAAAAGAA AAGTTAAATG TCTTTTAAAG   | 44400 |
| TATTAAGGTA TATTTTTTGA GTATTTTTTG TAAATCTGCA TTGCAATTGG TTTTATTTTG  | 44460 |
| TCAATGTGAT TTTTTAAAGC AGCAATGTTT GTCTTGATTG ATTTTAGAGT CTGATCTTTT  | 44520 |
| TTTAATTTGC TGGTATCAAA AAGCGTAAAT TCAGGATAAT TTTTGTTATT TACTTTTTGT  | 44580 |
| TTAGTCTTCA CAAGAAATGT TTGTAAATAC ATAATATAGC TTGAAAGATG CGCTTCGTAT  | 44640 |
| AAGCTTAAAG CCTTTAGTGT TGACTCTTGT GGGGATGATG GTTCTTCTGG AAGGCTTGCT  | 44700 |
| ATTGTAGAGC ATGAAAAAAT TATAAGACTG TTTAATAAAA AAAAAAGGG GAAATTTTTA   | 44760 |
| ATTTGCAATT TTATCTCCTT TATTTTCTTT TAAGTTTTGG GCTTTGCTGT TAGCAGTGCT  | 44820 |
| TGTATTTTCT GGAAACTCTT TTATTTGTTT TTGGAGTGCT TGAGTTTGA TTGACATTAG   | 44880 |
| TTCATTTCTC TCTTCTCTTA AATGTTCAAT GATGCTTGCA TCTCTCTCAT CATTAAATGCT | 44940 |
| TGATATAAGT TGAGTAATCT TATTATTAAC ATTTTTAATT TCATTTAATA TTTTAAATGA  | 45000 |
| TTCTTCTTTC TCAAGGGTTG TGATTTTGTC TTTGTAGATG CTCATTATTA GATTGTAAAG  | 45060 |
| ATTAAGCCCC AAATATATAC CCTTTTCTAC TTTGACTTCT GTTGGAGAAT CGCTACTTTT  | 45120 |
| TAGAAAATCA TATAAATTAT TTAAAGCGTC AATGCCAGAG TTGATATTCA TTTTATTGTT  | 45180 |
| CATTTTTTTT CCTTTTTATT TATATTTTTT AAGAGTTTTT GAATAAGCAA AATTAAATTT  | 45240 |
| TCTCTAAACT GTGGTTTTAT TGCCAAAATC ATCGGCATTA TTACCAGCAC AATAAATCCT  | 45300 |
| CCTAAGATAA TTAGTTTTGT ATTGTCAATT GTTGACAAAA AAATAAGTAT TGTATCCATA  | 45360 |
| AATGTCTCCT TTTATTTATT TTTTACTTTT GTTTAGTATT GGCATTTCTT CTCCCGTGCT  | 45420 |
| TAGTTTGCCC GATCCAACGT AGTACCAGCC ATTGTAAATT GGTGTTTTAA GTGTGGGCAT  | 45480 |
| GTTTTGAGAA GAAAATGAAG CTATTAAAA TTTTGCAGAG CTTTTTCAA ATTGAAGGTA    | 45540 |
| AAATTGTTTA TTGTGATCTT CTGTTGAGCT TGAATACCTG ATTTCTGCAT CTATTTGTAA  | 45600 |
| ATAAATGTAA TTGTCTTGT ATGATTCGTT TATTACAATT GATGTGCTAC TTCTGTTTTT   | 45660 |

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| AAGTGCAACG GTTGTAGCTT TATTTTATA TTGAAATTCT ATTATTCTAG CATCATCAAC   | 45720 |
| TATTGTGTGT AGCCCCCAA AGTCGTATGG TTTTCCTTGC CACCAAATAG GAATCTCTAC   | 45780 |
| AATTTGCGGA ATTCCGTTTT TATAGCAGCT TACAAGTTGT TCAGTTTTTG TATCAAGAGT  | 45840 |
| ATGTTTGGGT ATTAATTTAA AAGAGTTTTT AAATTTATCT GTAAAATCGT TTATTTGTAC  | 45900 |
| GCACCCCGTT AGGTCGCTTT TAAGCTCATT TATTTAGAT TTTTCTGCAA GAAATTCTTT   | 45960 |
| TAAACTTTCA ATCAAGATT CAAATTGAAT AAGTTCAATA TCTTTTGTTT CTGAGTTGTA   | 46020 |
| AATTGAAATT TTGTTTGAAG ATGGCTTTGT GTTGTGTGC TTTAAGCTCT CAATAAGTGT   | 46080 |
| AGATTTAACT TTTCTAAAA CAGTATCAAA ATCTATGTTT TCAAGTGGTG TGCTTAGCTT   | 46140 |
| TAAAAGCTTT GAGATTACTT TAATGTAAAT GTTTTTATA TATTCTTTGT TTTCTAAAAG   | 46200 |
| TTCTTGCTA ATTACGTCTT TTATTGCTTT TTTAAAGCAT CCAAATTCGT TGTTATAAAA   | 46260 |
| TGTATCGTTT TGTATTTGTT CTAGGAGATG TTTGTATGTG ATTGCGCAAG TATCTTCTAC  | 46320 |
| TATGTCATCA ATAGGAATAA GGTCGCTTTG ATTAACTTTT GTTTTCTGT TTAAGTCTTT   | 46380 |
| TATTTGTACG CTTTCTGTG GTTCGTTGGT ATTCATAAAT TCTCCTTTTA AATTTCTTTA   | 46440 |
| AGTTTTAAAT TGTGTTTACA CGCTAGTAAG CAGAAGGTCA AAAAAATGA TCTGCTGTGC   | 46500 |
| TAAATTTTTT TGTCTTGTG CCTTTTATTT CTATTTGTTT TTTGTCTATG ATTTTAACTA   | 46560 |
| TTCTTCCTAT GGGAAATTAAT ATTTTAATAA ACTCATATAC TGAGTTTTTG TAATCTTTGG | 46620 |
| GCAATAGTT AGAAGTTAGA GCTTTTTTAA ATCCCGCGTG CTTAGCAGTT ATTTTTTTTA   | 46680 |
| GCTTGTTTTG ATTTTTTGCT GCAATATTAA ATTCAATGGG GGACTTAATG TTTCCAAGCA  | 46740 |
| ATTTTATTAT TATTTGCCT GGAGCGTCTT CGTTTGAAC GACTTCTACA TTTGCGTGTA    | 46800 |
| AAAAGGCTTT AAAGAGCACA ATAAAGCTCT CATCAGTGCC AATGGACTTT ATTGCAAAAA  | 46860 |
| TAATAGCATC TAAAGAGTTA ACAAGATTTT TGTTAAGCTC TTTTAAAG TGAAATGCAT    | 46920 |
| TAAATATTGA AAGCATTAGC AATGCAATGT ATTTAGAGTT AATGCTATTT TTAACATTAA  | 46980 |
| TTGTGTTAAA GTTTTCAAGC AGCTCTTTTA ACTCTCTTAG TATCTCTTTT TTGTAATCAA  | 47040 |
| GCTCATTGCA AATGAATTTT TCAATTGTTG TATTTTCTAA AAATTTTGGT ATCTCTTTAT  | 47100 |
| TCATTTTAT TCTCTGTAA TAAGAAGCCT TTTGTTTGTA TAAAAATAA TAATTCATC      | 47160 |
| CTCTTGGTG TTTTCGTCTT TATTAAATGT GAAATCGCTA TCACTAAGTT GTGTGATTTT   | 47220 |
| TTTTGTCTCA TCATTTTAA TGCAAATCC GATTTTAAGC TCTTTTATTC CCCGAATAAT    | 47280 |
| GCTAACTGGT GCAAGAAAGT CTTGATACCT AAGAGATGTT CCCATTTCAA TGTATTTGTC  | 47340 |
| AGTTAATATT TTGTTGTAAA TGTCTCTAAT TTGAGTATCT ATTTCTTTGT AGATTGCGTC  | 47400 |
| TTTTGCTTCT GTTTTGTAGA CTACTTTAAG ATATGCATAT TTCTTCTTGC CTAAGCTGAA  | 47460 |

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| TTTGTATGTT TTTTTTTGGT TGTGCTTGTT TAAAACTCA ATCTCAATGT CGCCTTTAAA   | 47520 |
| AACTGTTCCG CTTGGCGCTG TATAGTAGAT TGCTTGCCAA ATATTTTGTT TAGTTTCAAT  | 47580 |
| TTTGATTTGT TTTTTTCTT GGTCTTGAAA GCAATCGTCT TGTAGTATTA AGTAGAGGTT   | 47640 |
| GATTGTTCCA GGCCCACTTA AAATATTTAT ATGCTTAACT CCTTCAACAT TTAGCAGAGC  | 47700 |
| TTTTCTTATT GCTTCGTAAG TTGAGCTTTT GGGCGTGCTT AAGTCCTCTT TTAGTGCATT  | 47760 |
| AAAGTAGCTT CCATTTTCTT TTATTTTAGA AAAAAGTTCT TTTAAGACTT CTGATATTTG  | 47820 |
| TTTGTCAATG CTTGAACTTG GAAAGTTTAT TATGTCGTAA ATTGAATTGT CTTTAATGTT  | 47880 |
| TATACCGTAT TTTGTTCTCA GTATATGTTT TTTTTCATTT TGAATTTCTT CTATTGTTTT  | 47940 |
| TTCCAATATT CCCAAGTTTT TATCAAAAAT TATACTCATA TTTTAAAATC CATTTTAAAA  | 48000 |
| TTGTCTTTTC CTAAAAAGAA AAAATTTATT GTTATTGTTT TGTTTTTAAT GCTTGGCCTT  | 48060 |
| ACGTTGATAA GGTCTATTTT GAGTCTTTTT GAAAGGTTTA AAAAAAATT TTTAATAGAT   | 48120 |
| TCTAGTTTAT TGGCTTTGCA AAGTTTAAAG TAAAAGCTGT AGTCAAGCCC ATAATTTGGA  | 48180 |
| TTTTCTTTTA AACTGCCTTT TGGTGTCTTA AGGTAAAAAA ATAAACGCTG TTTTGTGTCT  | 48240 |
| TCAATGTTTT CTATTAAATTT AAGATCGTTG TTAAATACTA TATTAAATTT TTCATCAATT | 48300 |
| TTAATTTCCA TTTTAACTA CCAAAGTCAT TTTAACATAT TTTATTCGAT ATTACTATAA   | 48360 |
| AGTTTTACAA AATGTTTATT ATTTTAAATG TTGAGATATA TTATAATTTA TATTTTTTTT  | 48420 |
| AAAAAATTTT ATTTAATTTT TAAAATTTAA ATATTTACAT AATAGTAATG TGTGTGGGAG  | 48480 |
| ACGTATGAAA AATATTTTAT TATTTGTTAT TTTATTATTC TTTTCTTGTA AAGAATTTAA  | 48540 |
| TTATTCTGAT CTTAGGAGAA GGCCTTCAAA GGTTTTAAAT GCTTCTAATG GTGCATCAAA  | 48600 |
| TAAAGAACTT AAAATTTCTT TTGTAGATTC TTTAAATGAT GATCAAAAAG AAGCTTTGTT  | 48660 |
| TTTTCTTGAA CAGGTAGTTC TTGATAGCAA TCCCGACAAG TTTAATCAAA TTTTAAATTT  | 48720 |
| AAATGAAGAG AAGGTAAAAG AAATGCTTGT TACTGTTGTT AAGTGTTTAA AGGCCAAAAG  | 48780 |
| AAAGGCTAAA ATGGCTCTTG AGAGCTCAAA TGTTGCAAAT GTTGCCAATG CTAAACAGCA  | 48840 |
| ATTGCTACAG GTTGAAAAAA CTTACATAGA TAATTTGCGA CAATCTTTTA TGACTIONTAA | 48900 |
| AAACATTGAA GAGGCTTGTA ATCTTGTAAG AAATTATGAT GCATCTGCTT CGTTTTAACT  | 48960 |
| TTTTTATTTT TAATTCATCC TTAGATTAGC TCTTAAGCTT AAGAGTTAAT CTTTCCGTTT  | 49020 |
| GTGCTTGTTT TTGTTTTTTT ATTGTAAATA TGTCTAGATT TGAAAAATTA AATTTTTGTA  | 49080 |
| ATTTAGATTG ATGTTAATGA TTTTAAATTA TCTGTGTAAT TTTAGATTAT TAAATAATGC  | 49140 |
| AGATTATTAA TACTTTTTTG CTTTAAAAGG CATTATTAGG TTAATTTAGG CTTAAAACCT  | 49200 |

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| TATTTAAGCT ATTTTAAATT GTTTTTTTAT TTAAAAAAC AATTTATTAA GGCAGCTGCA  | 49260 |
| AGCCTAATTC CTTTTATAGT AAGAAATAGT GCAATACATA CATTTAGTGT ATGTAAAGTG | 49320 |
| AGCTATATTT TTATTTAAAC CAATAATTAA ATAGAGGTAA TTTAATTTAT GAATAAAATA | 49380 |
| GGAATTGCAT TTATTATTAG CTTTCTGTTG TTTGTTAATT GTAAGGGCAA ATCTTTAGAA | 49440 |
| GAAGATTTAA AAAGCACCAC TTCTAACAAT AAGCAAAATT TAATAAGCAA TGAAAAAAG  | 49500 |
| TCTCTAAATT CTAAGAACAA TAGGCTTAAA GATTCTCGGT TAAGTAATTT TGAAAGCAAA | 49560 |
| AAAAATGACC AGACATTAAA AAAATCCAAA GACTTTAAAA AGGATTTACA AACTTTAAGA | 49620 |
| AATTCAAAAA ATTTAATGCC TAAAGACTTG GATCAGTCGA GTAATGATTT TGAAAATTTA | 49680 |
| GACAATTCTG AGTCTTTGCA AGAAGCTTCT TCAAAGCACA ATATTGGCAA GTCAAGATAC | 49740 |
| GGTAAAGCTT TGCTGAAAAA TGATCACGAT GAGATTTGGA TTCCCCATTT AAAGTTGGAA | 49800 |
| GAAGACAAAA ATTTTGAGTT TTTCAAGAAA TCTTTGCAAA ACGATGAGAA TAGATATGCT | 49860 |
| CTTGGTGGGT GGCTTTTAAA CAATGATGAG GTGTTAGTAA AATACAGATA CAGCGAAAAA | 49920 |
| GATGTTAATC AGTTTTTAAT TGATATAGGA AAAAAGCGGT GGGGAGATTT GTCTTCTAAA | 49980 |
| ATGAGCACCT TGGTGCGATT GATTGGAAAT TATTCCGACA AAAGTGACAG AGAAGATGAA | 50040 |
| ATTTCTCTTC TGGATATGAA TTTGTGTCAA CAATTTTATC TAACCAAGAT TAATGCTGGT | 50100 |
| GGTTCAAGCG CAGACATTCT TGTGCTCTT GAAAAACAA TCGATCAACA AATTAGCGGT   | 50160 |
| GTTAGCAAAG AACTTCTTGA ATTAAAAAAT TTTTCTCTTA CTACAAAGTC AGAGCTTGAT | 50220 |
| TGGTATTTAA ATTGGAAGCG CAATTTAACA GACGAAGAAG AAGAGACTTT GCAATGTTGC | 50280 |
| AGGGTTTTGT TGGGCGGAGA ATTGGATTTT GAAAATCTTG ACGATTTGTT TAAAAGGCTT | 50340 |
| GGAAAGGAAT ATTCTAGGTT GATATTAAGA AAGTTAGAAG AAATAACATT AAATTACGAT | 50400 |
| GTTAATAGGT TTTTAAAAGA AATGGAGAAA TCACGTAAAT CTTTCAAACA AGCATTAGGT | 50460 |
| TCTATTAGGA ATAAAAGCAA AAGAGTAGTG ATTTTTAAGG TTAGAAATTC TCTTTTGGA  | 50520 |
| ATTTTTAAaC TTTATTACAA CAATATTGGC AGGAATAAAA AACTTTATGA TTATATAAAT | 50580 |
| CGCATGTTAA ACAGCTTGAT AAAAGAGATT AGCAGGCGTT AAAGTTTTTA TTTTGATTTT | 50640 |
| TTTGTTAATT GCTCTACATT TTCTTCTAAT AATCTAATTT AAAAAGTTTA AATATTAGAT | 50700 |
| AGAATTTTAA AAGTTTAAAA GGGGGAGCAT TTTGAAAAGA GTCATTGTAT CCTTTGTGGT | 50760 |
| TTTAATCCTA GGGTGTAATT TAGATGATAA TTCAAAAATG GAGAGAAAGG GTAGTAATAA | 50820 |
| GCTTATTAGA GAAAGTGGAT CAGATAGGCG GGGTCAAGAA AATAGAGCCT TGGGGGCGAT | 50880 |
| GAATTTTGGG CTTTTTTCTG GAGATTCTGG TGAGTTTAT GATTGCAAA ATTATGAAAC   | 50940 |
| TTTAAAAGCT CTTGAAAATA AAAATAAATT TATTGATTAC TCTAAAATAG AGTTTTTAGA | 51000 |

AGGAACAAAA TCAATAAATG CTTTTATTG GGCAGTTTCT GTTCGTTGGA TAAAAATTAA 51060  
AGCCAGAGAT TTGTTTGGGG AGTGTGGAGA TTTTATTAAA GAGCTTAAGG GCATTAAGTA 51120  
TTCTTATCTT GTTCTCCTG TTGATGGAAG CTATATTTCT TATGCCATGC CTATAATAGT 51180  
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CAAGGGAAAT GATATAAATT TTAATGAAAA TAAAAGCGGA TTTTGGGGAA GACTTCCAAT 51300  
GTCTGAAAAA TCAGTTGAAT CTGGGCTTGT AACC GCATAT CCTTTTGGTT CTAGCGATGC 51360  
TAAAAAAGTG ATTGAAGCTT TTGCTTCTCT TTATAATAAT GGAAGTTGGA GTGATATGAT 51420  
TGCCGAGATT ACTATTAAGT CAAAGCAATA TCCAAAAAAT GAAAAAGTTT ACAGAATTAC 51480  
GCTTGATTCT CAGCTTTTTA ATGTTGCTAT GAAAAAATA ATTGAAAAAT ATCCTAAAAAT 51540  
AAAAAGTGCA AGTTTTGCAT TTAATTCGTT AATTAAGTAA AAAAATATTT TAAAAGCTAG 51600  
CAGTTTAAAA CCACTAGCTT TTTAAATTAA TTATAAATTT CAGACTTGGA TTTGCTATAT 51660  
AGTGTCTTTA AGTTTATTAA GTGTGGTTTT GGAATCTGCT TGATTAAAAA TTCCATCAAA 51720  
TCCGCTAGCA AGTATGCTTT TGTAAGTATT TAGCTCTTCT GGATCTTTTT CTTTTTTATC 51780  
TTTATTTTCT TTAATTTTCG CAAGCAGATC TTTTATTTCA TCTTCTTTTA GCTCTGATAG 51840  
AAATTTTGT ACAGATTCTT CTATTTTGCT TTCGTCTCCA CCGCTATTTT TAAAATGTAA 51900  
GCCAATATTT GGATCTACTA GTTTTTCTTT TAATAAGTTT GTTAAAAATG TTAGTGTTC 51960  
TTTTTCCGTG TTGTTTAAGT TTAATCTGCT TACTAATTTT TCTAAAGGTG TTGCTTTGCT 52020  
GAATTCAATT CTATCTTCAT CAACTAGGTT TGATTTGGCT TGCGATTTTT CATCTAGATC 52080  
GTTGTTTGGC TCGGCATCAT TACTTTTGTT TTTGCAATTA AGCATAAATG CTAATATTAT 52140  
AAATACAATA ATCGTTTTTT TCAAAATAGT CTCCTTAAAA AGTATTTTAA TTATTATTAA 52200  
TTAGTAATTA TAGCATTTTA ATAATATGTT TAGAACATTT TAATTTAATA ATTGTTATTA 52260  
TTAATTATTA AAAATATTGT ACTAATTTAG CATTA AAAAAT AATTCTTTA TTAGGCTCAA 52320  
TATTGCGTTT AAGATTGCA ATGTTTAGTA TTCAGGAGGC GGGGTTTAAC GATATTTTAA 52380  
GTGCATTTGA TAAGCCAACA GAGAAAGCAT TGGTGCGAAT ACTTCTCTG TTGCCAAATT 52440  
GATTTTAAAT TTAAATTAGA TTATAAAAAAT TATTATCTAT TATTAATTTA ATAACTTTTT 52500  
TTAAACGATA ATTGGAATCC GTTATTCCA AGATCAAAAT TGGGCTCAAA GCCTGCAAGT 52560  
TCAGCGCTGA GTCTTTTTTT AAGATTTTCA TTGTGCCGAT TTGCGAATGT AAATGGAATA 52620  
ATAAGTGAAA CTGTGTAGGA TGTAAAACC ATGCTTGCTC CTACCCCTAT TAATATGTAT 52680  
CCGGTTAATT GTGTTTCTCG GTGATTAAGA ATAATTCCAG TTCCCAAAG GATTGCTCCT 52740

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|---|-------|
| AATAAATTAA ATCCAAGCAC TGAGCCTCCA CCAATATAAT CCCCTTGGAC AAAGGATCCT | 52800 |
| ATTCCAAAGG GCAAAAATAA ATTTAAAAGG AATGGCCCTA TTGGATTTTT TTTCTCTTTA | 52860 |
| TCATATTTGT TAAACTTTT AATGCCTTTT TCAATTCTAT TTTGTGTGTC TTTTGTGGCA  | 52920 |
| AAGATTTGAA TTGTCAACCC AAAAATTAAT ATTAATGTGA AAATTTTTTT CATGTTTTTA | 52980 |
| TTATCTCCTA ATGGTAAGTT TTGACAAGTA AAATATTAGC GCAATTTATA ATAAATTAAT | 53040 |
| ATTAATTTAT TGCAAGCAA TAAAGTTTGG ATTGAGCTCG TTTGCTTGCA ATAATAGATA  | 53100 |
| TTTAAAAATA TGTAAGATCT TAAGAAGATA AATTAAAAGT AAAAGAAGAC TTTTAAAAG  | 53160 |
| TTTAATCTAG CTTTGAAAAG CAAGTTTTCA AAGTGAGCCA TATAATTAAT TCGAAATTCT | 53220 |
| TTTGTGAGAA TAATACTATC TGCTAGTTAT CCATGTTATT TAAGATTCTT TTGATCTTTG | 53280 |
| ATTGTCTTAA AGCTTCGAAT TTTATTTATT TCTTATTGAG CTTGGATTAA TCTTTAATTT | 53340 |
| ATCTCTTCTT AAAATCTTTT AAGACCATTT ATTAATGGCA TTAAGCTTTT ATAATGTTTT | 53400 |
| TATACTTTAA CTTTCTAATT TGTTTTTATG TTTATATAAT TTTAAATTAT TAATTCAAAT | 53460 |
| TAATGTTTAC AATTTTTTTT AAAAAAAGTT CTTTGATAAT GTAGTAATTT TTATTTTTGT | 53520 |
| ATTAAAAATA AAAATTGTAT TATGATTGGC ATGGGCTTCC tATTTTATAT TAATATTCTT | 53580 |
| TAATT   | 53585 |

(2) INFORMATION FOR SEQ ID NO: 5:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 35515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

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| GGTTTAGGAT CCTTAAATAC GTTGATCATG CGAAATGACA TATCAGAAAG TCTTTTCCTA  | 60  |
| ACACCATTCA TTAGACAACC CCCACACAAG ATGGCGTTGA AGTTTCTCTT TTTAGTTTTT  | 120 |
| CTAAAAATGC ATCAAGTTGT GAACAAAAAT TCTTGTTTGA GCCACAACCTC CCCTCGCCGC | 180 |
| CTTCTTCGCC TCCACTGCTA CTAGGATAAT AATCAAGTTC AAGTTCATTG AATTCTCTT   | 240 |
| TTTTGATCCT ATCAAATTCA AATTCTCGAA CAACTCCCTG TTTTCTTAAT TGGCAGCCCA  | 300 |
| TATGGTAGAA AGTAAGTAAA AATATTTGTT CATACGTCAG TGAAGTGGCA TCAATACCGC  | 360 |
| GTGTTACTAG AATAGCTTGA AGTAAGGATA AATGAAGTAG AAAATTTTGC CTGCTTAGTG  | 420 |
| CAAATTTGTC TATTCCTAAT AGCAATAACA CTTCTGAATG GAGTTTTGTT ACTAAAAGTT  | 480 |
| CTTCTTCTCC tGCAACTTGT GCTTGTAAGC TTTCTTGTTT ACTCATTTTC ACTTACCTTA  | 540 |



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|-------------|-------------|--------------|-------------|------------|------------|------|
| TACTTTTAAC  | TTTGCTTTAT  | GTAACTTGC    | AAAATAGTTT  | TTCTAGTAGC | AAGTAGACCG | 600  |
| CCTAAAACAA  | AATCAATGTA  | TGAATGAGCT   | ACATCGGTTG  | AGTCTTTATC | AACTTGTTCA | 660  |
| TTCCGGTGTAG | GTAGCATATA  | CTTGCTAGGT   | TTAAATTTAA  | TAAGTTCAGA | ATTTAGTGGA | 720  |
| TAAATGAGTA  | TTTTATGTTT  | CAGCAAGTTT   | GAAGTTTCAA  | TGTAAACATC | TTCTCTATTA | 780  |
| TTAATAGCCT  | TAATAGTTTG  | AATTA AAAACA | TCTTCCCATT  | TTTCACAACT | ACTTGCTGCA | 840  |
| CCCTGTGCTG  | CTGCGTATGG  | TTTTACTAGT   | TTAAGTGACG  | TTGCTGGGTC | AACTATTACC | 900  |
| ATCATCGGGG  | TGGA AAATTC | GTCGCCCAGT   | TCTAACTTTG  | AAAGTCCAGC | CTCAATCTTT | 960  |
| TCAAAGATTT  | TATCCATTTT  | ATCTTTATCA   | CCACTAGCAA  | CCTCTTCTTT | TATCTGCTCG | 1020 |
| GGCATATTAA  | GCAGCCCATA  | CATATTTGGA   | AGCAGGCGTT  | TTTGATTTTT | CCCATCTTTT | 1080 |
| TGAATCGAAA  | CAGTCCCGGT  | TAATACAAAG   | TGATTAATAA  | GTTTAATAAT | TTCACTACTT | 1140 |
| GCAAGCTTAT  | ACGCTTGAGC  | AAAAGGAAGT   | AAATTATTAT  | TAATGTCCCC | AATATATGAA | 1200 |
| TCTGAAGTAT  | AAAATTTCTC  | AGAAGTCTGC   | TTTAAATGTC  | TGAATTTATA | CTGTAATTTT | 1260 |
| AAATAATTAA  | GTCTTACCAC  | TTCAGAACTA   | AATCCAATAG  | TTGAGATAGT | ATTAACCTCA | 1320 |
| TTGGCAATTG  | TTGTAGGATT  | AGCATTTAAA   | AACGCGTCCC  | ATTTTACGGT | TTTTTGATAT | 1380 |
| CCCATTTGTA  | GATCAACATC  | TTCAATTTGA   | TCGGGCGAAA  | ACCATTTATA | CATAATAGGA | 1440 |
| TCTTTAACTT  | CTCCTATGAT  | ATTTGCCACA   | GCTTTTG CAT | AATAATTTTC | ATCAAATAAT | 1500 |
| TCCATATTAA  | ATCCTCCCAA  | ATATTATTAA   | TTTCTACTCA  | TAGCTTTATT | TCCAAATACA | 1560 |
| GCTACTTTTA  | CTAAATAAAC  | CTCATTGCTA   | ATTTGTTTTG  | CATCAGTCAA | TGCTGTTGCA | 1620 |
| TTAATAGTTG  | CTTTATTTGG  | TGCTCCAGTC   | ACCTTTTCAA  | GAGCACCGTC | TTTATTAAAA | 1680 |
| AyAAGTTTrT  | CTTTTACTTT  | AACCGTAGAA   | TCTTTTGCCA  | CTAAATAkCC | CTCAAAATTA | 1740 |
| TTGGTAATTG  | GCACAATAGT  | AGCTGTTTTA   | CTAAACTCAT  | CTATGTCAAT | GCATATTCCA | 1800 |
| TATAAGTCTT  | CACCTCCACC  | AGCCTCAACA   | TGTGGCTCAT  | AGTGACTTTG | ATTATCTTGA | 1860 |
| GCCTCTTGAA  | TA ACTCTTTT | TACTCCACGC   | TTGTACGGAT  | ACCCCAAAAA | TGGATGATTT | 1920 |
| TCCAATTTTrT | CAACTTACT   | AGTTCTAGTG   | CCTCCAGAAG  | CAAAAATTc  | TACATTTTTG | 1980 |
| TCTCTAAATT  | CATTAGAATT  | GCTAAGCAAA   | CTAGCGTCAT  | GTTGGGGATT | TTTCATAAAC | 2040 |
| TTTTCCAGTT  | TACTTCTTTT  | CTCTTGATAC   | TCTTTTACTA  | ATTGCGTTGT | ATCTCCCAT  | 2100 |
| TATTTACCTC  | CTTTTATTCG  | CCCAAAGTTT   | AACCACCATC  | AGGtATTaCT | rTyTTCTCAA | 2160 |
| GGCCTCTATT  | TCCAAAAATT  | GCAACTTTTA   | TCAAATTAAT  | AGAATACTCT | TGCCTAGGAT | 2220 |
| ATCTATTTTG  | ATCTTGATTT  | CCATCTTCGG   | GTGCAAAATT  | GATTGTAAAT | GAATCAGATA | 2280 |

|            |            |             |             |            |             |      |
|------------|------------|-------------|-------------|------------|-------------|------|
| GAGCATATAT | GTAAATTGCG | GTTGGTGGCC  | CACCTCCrGC  | CTTGATAATA | ACACCGTTAT  | 2340 |
| TATTTATGTC | TAGkATTTCT | CCTATTTTTTA | TACTTGGATT  | CCTTGTrACA | AGrTACCCTT  | 2400 |
| CAAAATTGTT | AGTAATTGGC | AATACATAYG  | CrGTACAAC   | AAACTCACAT | ACATCTACAC  | 2460 |
| ATATCCCATA | CATATCAGTA | TCAGCTCCAA  | CTTCmACATA  | TATAGAGTTC | TCTTTTGGAA  | 2520 |
| CAAGTTTAAC | sCCrCGyTTG | TATGGAAAAC  | TATTyGCTGG  | rTCGTAAAGG | TATTCCTCTA  | 2580 |
| TTTTGTCTGT | ATAACTTGAA | CATGCAAATG  | AATATGCATC  | AACTCGCTCA | TTCTTrGATT  | 2640 |
| TAAACArCy  | ACTTrAACyG | CyAAAAACCT  | TATTTTCAAT  | TGAACCATt  | GATTTTTrmAT | 2700 |
| ATTTyTTrAA | TTTyAAAAGr | ACATCATCAA  | GCTCGyTAAT  | TGmCTCCAA  | TAGGGATCTT  | 2760 |
| CCCCTTGTrC | rTCCTCAGCT | TGTCTTGCTT  | GCCGTTTAGC  | TCTAGGAGCA | GCGGAAACTT  | 2820 |
| GTGCCCCTAA | ATCTACCTGT | GGGTCCTCAA  | CAGCCTCAAG  | ATTTTCTACT | TGCATGTTGC  | 2880 |
| CTTTTAAAGC | CATAATTTAT | TACCCTTTTA  | TTGCTCTATT  | CCCAAATACA | CTAGCAAGCA  | 2940 |
| CTATAAATAA | ATCTTCAGTT | AATTTGTGTG  | CCTTTGAAAG  | TGCTATTGCA | TTAACAGATT  | 3000 |
| TTTGAGCCCC | AGTGACCTTT | TCAAGTTCCC  | CATGTTGGTT  | AAAATTTAAT | TTATCTCCTG  | 3060 |
| GATTTACACC | ATTTTGTCCw | TCTTCTTwA   | GCGTTAAATA  | CCCAGTAAAG | TTATTTGTAA  | 3120 |
| TTGGTATAAC | AGTTGCCATA | CCGCTAAACT  | CATCTATATC  | GGAACACACT | CCATATAAAT  | 3180 |
| CGTCTCCACC | ACCAGCCTCA | ACTTCTAGTT  | CGGTTGTTCC  | ATCTCCAAAA | CTAAGCTTAA  | 3240 |
| CACCCCGTTT | ATACGGATAC | CCTTTAGCAG  | GGTAATTCTC  | TATTTTGTCT | TTACTGCTAG  | 3300 |
| TGCAAACCCC | ACCAGAATTG | GAAAAAATTA  | GATTTTGGTC  | TCTAAAATCA | ATAGAATTGC  | 3360 |
| TAAGCAATCC | TGAGTCTTGT | TGGGGATTTT  | TCATTAATGC  | TTGAATTTCT | GCAACTTTCT  | 3420 |
| TATCAAATTC | TTGTTTAATT | TTTGTTATAT  | CACtCATTTA  | AAAACtCCTT | TAGGCAATAC  | 3480 |
| TTGTTCTTTT | ATGTCTTTTT | AGATTTTCAT  | AAAATtGAAT  | TCGTCTTTGC | TTGTATGTAT  | 3540 |
| TACTTATCGC | TTGTACAAAT | TCTGTGAAAT  | TAATAGGTAC  | AAAATTAGAA | TCAAGCAAAC  | 3600 |
| TTGCTCTTTC | TTCTGATTTA | ATAGCAATAT  | TCCCCTTAAT  | AGAGTCAACA | GAAGAAGAAC  | 3660 |
| TGCTACTCGC | ATTTTTTCTT | AATTTAATAT  | TCACTTTTGC  | TAAAGAAACA | AGTTGCTCTA  | 3720 |
| ATATCTCTCC | ATCGATATGA | CTTATGTCTG  | ATACTTTGGC  | AATAGCTTTA | ATTTGCTCAA  | 3780 |
| TTGGAACGAA | CTTGCGTACA | AGTTCTCTAC  | GTTGTGCTTG  | CATAATGTCT | TTTAATGTAT  | 3840 |
| ATCCTTTTGC | AAGTAGCACC | TCTTTGTTAA  | AATGATTGCT  | AAGATGTGCT | TTTGCAAGTG  | 3900 |
| TATCAATTTT | ATTAATTCGC | TCAGCCTCTA  | GTAACAATTG  | CTTTTCAATA | CGCTCCCGCT  | 3960 |
| CTTCAACTTC | TGCAAGTTCT | TTTGTTATTC  | GTTCAATTTAT | ACTTAAATCT | CGACTTGTCT  | 4020 |
| CTTTAGATTT | ACTATTTGCC | TGCTCTTTAA  | AACGCATGTA  | CTCTTCAAAT | TCCTGCrCAC  | 4080 |

|             |             |            |             |            |            |      |
|-------------|-------------|------------|-------------|------------|------------|------|
| TkATAACTTT  | AGTATCAGCC  | TTAATTTGCT | GCTCTTCTTT  | ATCTTGTGCy | TGCAGGTCTT | 4140 |
| CTTTTTCTTC  | TTTCTCAGTC  | ATCTTTTAAC | TCCTTTTCTC  | AAAATGAGAA | TAATTTCTCT | 4200 |
| TTTAACATCG  | CTAGCTCCTC  | ATTATTAAAT | GAGCTACTTT  | GTATAAGCTG | GTTATATTTA | 4260 |
| CTGTAAAGCT  | CAATTAGCTT  | TATATCTCTy | TCyACTTTTT  | GTTCTTCACT | TAACATAATC | 4320 |
| AGCGAATTAA  | ACTTCATATC  | AAGCCCCAAA | TACTTTGTAA  | GTTTTAAATT | ACAAGAGTTC | 4380 |
| TCAACTTGTT  | CTTGACACC   | TTTGAGAAAA | TCGTAATAAT  | TACTCCTATC | ACCTTTACCA | 4440 |
| TCATTTCCCTA | GyCCTTTAGC  | CTGCTCATT  | AACTTCTGG   | TTAAGGGCTC | TTTAGTATCT | 4500 |
| GCACCAATTT  | TTGCCTTAAT  | TAATGCTAAA | GCCTCCTTTA  | AGTAGCTAAG | ATCGTATTTA | 4560 |
| ATAACCTCTA  | AACTAGCACT  | AGGGGTGGCC | GTATAAAACA  | TTCCCTCATT | ATTTAGATTG | 4620 |
| CTTTTtagcc  | TAGCAAGCTC  | CTGTGATAAT | GAGTCATTAA  | GGTTTCTTAA | ATTAGAAATA | 4680 |
| TCTTTACTAT  | GATTGTTTGA  | ATTTTGTTTT | CTCAAAAAG   | AAGATAAAAT | GCCACTTCCC | 4740 |
| CTATCATTAT  | TGCTCTGAGT  | AAGTGCACCT | AAAGAAGTTG  | TTGCACTAGA | rAGTGCGTCT | 4800 |
| TGTAGTTGTA  | CTAAAGATTC  | ATCTTTGTAA | AACAAAAAAT  | TGTGGTTTTT | AATACGTCTT | 4860 |
| TCTATTTCTA  | CGTATATCTT  | TTCAAATAAA | TAAATATCTA  | GTAAAAAGCT | TTCGGTATAA | 4920 |
| CACGGAACAT  | ATCTTTTTTAA | GATATAATCA | AAGTTTTTCAT | ATATGATAAG | TCGACTTTTA | 4980 |
| TGTATTTTAA  | CTGCGTCTAA  | AGAATTGTTT | TTATTGTTGG  | ATTTTACTTT | ATAGGTTATA | 5040 |
| TGATCAAAAT  | CAACTCCCAA  | ATCTCTTACA | TATTCATAAT  | CAAGGTATTC | AAAACCAATA | 5100 |
| GGTAATTCTA  | TATTAACGGG  | TTGTTCGAGA | TCTATTAGGG  | TATCTTTGGT | TTTTACTAAA | 5160 |
| ACATAGCCAA  | TCCCATGAAA  | ACGGTAGCTT | ATAATACAAT  | TAAGCAGAGC | ATTCTTAAGC | 5220 |
| TGTACCTTTA  | ACCTAGCAAG  | TTCAACCTCA | CTAACATTGT  | GGGCAGCACT | CTCAAGAAyA | 5280 |
| AGTCCGTTCT  | TGAGACAATC  | TTCTGCTACA | TTTCAATGT   | AATTTCTAAA | AAATATTGAG | 5340 |
| TATTTGTATA  | GTTCTAGTGA  | ACTTATTTTA | TCTATTAGTT  | TTGTTTTTCT | TAAATCACAC | 5400 |
| ACCTTTTTTAC | TTCTCTTTAT  | TAAATTAGAT | GyATGATAGC  | AAAACTAAT  | ATTTTTGTCA | 5460 |
| ATAAAATTTA  | CAAAAATCTT  | TGATTGCCAA | AGTGAACACT  | TCGCTCTCTA | TATCCTAAAG | 5520 |
| ACAACATCAA  | ATATGCTGCA  | GAYATTGCAT | CAAGAGCATC  | ATCATGGGTT | TTGyTATCCC | 5580 |
| CCTTATACGA  | ATAAATATCA  | TTAAATACAG | AAGAACTACT  | GTACTTTGTA | ATrTAAAGTT | 5640 |
| TyTTTrTAAGT | AAACGGCGTA  | ATTAACGTTG | TTATTCTGCT  | AAATTTATTA | GACTTTGGCT | 5700 |
| TAAGTGGAAC  | AATTCTAAAA  | TATTGGCTTA | TATTAYTTCT  | TAGCAAGATG | TATTCrCGGG | 5760 |
| TCAATCCACC  | AGCACCTTTT  | GTATTATCTC | TATCCTCTAA  | ATACAGTGTA | TGCACATTGA | 5820 |

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|--|------|
| AATTTTCTAT AACrGTCTTT ACCATATTCA TAATATAAGG ATCATTTrGCT GGTckTTGGT | 5880 |
| CTTGAAATAC AAAAGCATAA TACTTATCAT CAACTCGCTC CATAACACAT AATGCAGTGT  | 5940 |
| TATCCCCkCC AACACTAAAT GCTGGGTCTA AATATGCTAT CGGGCTAGTA AATACATAAT  | 6000 |
| CATyAGTAAT ATTTATTTGT GTAAAAATTG AATCrGTGCT TGCTATCCAC TCACCTAGCA  | 6060 |
| AAACTCTTGC TTTATATGAT GGTATATCTT TATAkAGCTT TTCTTGtGTT TCGAyAAATC  | 6120 |
| CTTTACTAAG TAGmACATTA TCATAAGTTG TAAAATTATA TGCTTTAAAg GTCGCTATAT  | 6180 |
| TATCAATATA ATCGGTTTTA AAATAGTGTT CTGGATGATC rGGATTAGTA TCAAAAATAA  | 6240 |
| TAGTTTCTTG CCCGCATCTT AGTCTTTTTA AGACyTCCTC TAAAGTTTGC TTGTGTAAAG  | 6300 |
| TTGTAGCCTC ATTAACAAAA ATAAGTGCyG AATTACTTCC CCTAAATCTT TCAAAATCAC  | 6360 |
| TTGCCTTATC TCCACCATAT AGATTAATAC GTAGTGAATC AATCAGAATA TATGAATTAT  | 6420 |
| TTGTATGTCT TGGAATATAA GGAATTTTAA GAAGTTTACA TAGCTTTTCA AATTGTCCCA  | 6480 |
| AAACATTAAC TTCAACTGAr CGTTGTGAAT TCCCwATAAT rAAATTATm GTATCrCTAG   | 6540 |
| ArTATAACTT TTTATTTTCA ATTAAACTTT TkAGAAAAAG ATArCATGCA AGATACGTTT  | 6600 |
| TGCCrCTAGC TATGCCkCCG CTGAGTATAA TCTTyTTTTc ATTATTCTTT TTAATrCTTT  | 6660 |
| TTATCACATT TTTTTGTTTT AAAGTTAACT GTTyTTCTTC AAACCTATCA AAATTAATTG  | 6720 |
| AAGAATTTGT TAGCTTTACA AATTGTGATA TATCAACTCC ATATTTATTT TTGTATTCCT  | 6780 |
| TTTGTAGTGT TGTA AAAAGT TTTGTTTGAT ATAAGTTCAC TTGTGCCCTT TACTATTTTT | 6840 |
| GTAGTTTrCTT TTGCTTTCAG CnTCaTTArC mGTwGyAAGT TTTTTCATAC ATTCATAGTA | 6900 |
| AAGCTCCATT TCTCTTATTG AACACTCyTT TATATATTCA TCAAGCTCGC TTTTTAAAGA  | 6960 |
| ATTAATTTCT CCATTAACAA CTTGCTTGTT TTTTTTACTA CTTGCTTTAT TTAAAGCGTC  | 7020 |
| AATTTCGGCT CTAAATTTT CTATTTTAGT wyGCATACyA rwAAGyTCAA CACTAGAATA   | 7080 |
| TTGCTTAAAT GCACGTATAA ATCCTAATTy TAAATTAGcA CrCTCTAyAT CyAATTCrCT  | 7140 |
| TATAACTTTC CTAGCGTTAA CTTCTGATyT AAArGTTTGy GATAAAAAGG GTTCTAAAGT  | 7200 |
| ATCTTCACTA ATTGTTACTC TAGAGTCyys GTTAACAACA CTTTCTCCAC TTTCCCAyTT  | 7260 |
| TTGTCTcATT CTCCACACAT TACTTTTAGA AACTCCyAAT TTaTyCGCTA TTTCTCTATC  | 7320 |
| ATTTAACGAT CCTTCTCTAA AATAyRCAAC ATAATCATCA AAAGrCCTTT TAAC'TTTTTT | 7380 |
| CAAAAmAATT tCTCCTAAAA TAACAAAATT AACAAcTTGT TACTCTAAAT AGTAAkCAA   | 7440 |
| TTTGTTAATT GTTAACATAA ACTATTATAT TTTTGATGTT TATTGATAGA TATTTGATAT  | 7500 |
| TTATTGTCTT TTATTAATTT AGAAATAGCA ATTACCTAGT TTATTGAATT TTGGAATAAC  | 7560 |
| CTGATTATAC TAATTTGGAA AAATCTTTTA TTGTTTTTAG AAGATACTTC CTTGTGCAAA  | 7620 |

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|---|------|
| TTCCCTTATC ATAATAGTGC ATGATTATAA ATAATATCTC TACAAAGTCG AGAACCACAT   | 7680 |
| TTATTGATTG TCGTTCTGGA TCTTTATTAC CAATCTCATC CATAATATTA GAAACAATAC   | 7740 |
| TCAAAAACCG GGTAGAATAC TTCTCACCCA TCTTTTCCAA ACATTTTTCT AGCATTCCCTT  | 7800 |
| TCTTGTAAGT ACAATCAAAC TTCCTATTTT GGAAATTTTT ATACTTTTCT ATTATATGCT   | 7860 |
| TATCTTTCAG AACGTCTTTA ATAAAATTTT TTGCAGGATC TATAATATAA TCTGCGATTT   | 7920 |
| CATCAATACT TTTTCCGGTT TTTCTTTTGT ATTCTTGATG TGATACAAAA CCTCTATAAA   | 7980 |
| AATCCTTTTT TTGTTTCAGA GTTAATTGTT TAACTCCATA AAGTTTGCTT ATTTCTTTTT   | 8040 |
| TTGTGCCTGG ACTCAAGCAA TCATAAAAAT CTGAAATCTC ATTTATATTC ATCATAACTC   | 8100 |
| TAGAGAGTAT ATAAATAAAC AATATTTTAA ACAATAGTTT TTGGCACTTT TTGAATGAAA   | 8160 |
| ATTTTTATAG AAAACATTTT TATATTCACA ACAATGAAAT CTACAAAAAA ATAGCGGCTA   | 8220 |
| GTTTAAAAAA TAACCAGCTG CTATTTTGTTG TATATAAAAT TTAGTTACAT TTAAAGTTCT  | 8280 |
| TTATCAATAT GAATTACTAT CCTCAATGTA TCCTTTAATT TCTTCAAAAT TATCTTCATT   | 8340 |
| TTCAAAATAT TTTTAACTT CTTCTAATCC TGATTTTAAAT TTTTCTAAAT CTGATTGAAT   | 8400 |
| ATCACTAACA TTTACATTTT CTTTTAAATT AGGCTCCTTT TCTAGAACAA TATATGCTTT   | 8460 |
| ATTACCCTCA TTTAATTTGG TTCTTAAATT ATGTCTAGTA TCACTCAATT CTTTCAATAA   | 8520 |
| TTTTCCCTAAT TCTTCGCCTT CTTTCATCCTC TAAATCTCCC CAAGTTTGTG ATATAGCTTT | 8580 |
| ATTCCCATCA GTAAATCAT CATATACAGG CCCCCTAATT TTATCTATAA CTTCTTCTGC    | 8640 |
| TCCTACAATT GTTTTACCAT TTATACCATC AATATCCTTA TTTATTTTAT CTATTTTGTC   | 8700 |
| TGTAAGTGTT TTAATTTTAT ATTTAACTTT CTTTTCTTCT TCTTGTTTTT GTTGTTCCCTC  | 8760 |
| TCTTTCTTGT TTTTCTTTTT CTGCTTTAAC CCTAGCTTCT TCCTGTTGTC TTTTGTGTTT   | 8820 |
| TTGTTGTTTT AGTCGTTCTT CTCTTCTCT ATCTGCTCTA GCTTTTGCTT CTTCTTGTTT    | 8880 |
| TTGTTGTTCT TCTTTAGAGT TTCTCTCTT TTCTTTTTGC TTTTGACTTT GCTTCTCCAC    | 8940 |
| TTTTTCTTTT TTACTATCTT GTTCTTCTTT TTTCTCCTCT ACAACTTCTT TTTCTTCTCT   | 9000 |
| AACTTTATCT TTAGATTCTT TTGCTTTTTG GTCTTCTTGT TGACCACCAC TTTGTGCTGC   | 9060 |
| TGCTTTTACT TTTGGTACTG GTGGATTGTC ATGACTATTT TCCGGCAATA CTGGTAACAG   | 9120 |
| TGCTATTGCT CTGTTATTAG GATCATCGCC CTGCATTAAT TCATTATCTT CATCTTCTTC   | 9180 |
| TTGTAATTTT TTTGCTAATT CATCTACTTT TGAAGTACTT GAAGTAATTT TATCTTTTGC   | 9240 |
| TGGATCTAAA ACCTTATCTA AAAATCCTTT AATTTTCCCT TTTGCATTTT GTTTTATATC   | 9300 |
| TTTACCAGTT GCATAATTTT TACAAGAAAT TATAAGTGCA AAAACAGCAA AAATAATCAA   | 9360 |

|             |             |             |            |             |             |       |
|-------------|-------------|-------------|------------|-------------|-------------|-------|
| TATTTTTTTA  | TTCATACTTT  | TTGTTTTCTC  | CTTTGTTTTG | AATTTCTATC  | TTAAAAGATA  | 9420  |
| CCACTGTTAT  | TCTTTTTTTAT | CTTCTTCTAT  | TCCCTTAAGT | TCTTCTTCAA  | TCTTTTTAAG  | 9480  |
| AGAATCATCT  | ATAACTTTGT  | TTGCTAATTC  | ATCAGTATTG | CTGTTGTCAC  | TGCCGCCATT  | 9540  |
| AGAATAACTT  | ACACCCAAAC  | CTAATTCATT  | GGCACACTGC | CAAGCTTGCA  | CTCCAACACC  | 9600  |
| ACCTCGGTTT  | TTAGACCTGT  | CGCCTTGAGT  | TTTCCCAGTT | GAAGTATCTA  | CTTGTTTTTT  | 9660  |
| ATATTCTTCA  | AATTTCTGTT  | TGGCCTCTTG  | TAAAGCTTTT | TTTCTCTCCC  | CCTTTTTCTT  | 9720  |
| TGCTAAACTC  | TCTTCAAGCT  | CCTTAAATTT  | ATCTTCAAGT | CCTTTTCCTT  | TCAATTTTTT  | 9780  |
| TTTTATTTTG  | TTTATTTTTT  | CTTCATACTC  | AGAATATGTT | TCAATAGAAG  | TTTTTTTAGA  | 9840  |
| ATCTAATTTT  | TCTATTTTAT  | TCTTTAATTC  | TTGAATTTGT | TTTTCAATTT  | CTTTTGTATC  | 9900  |
| TTTTTCATCT  | AATTTAGATA  | AATCTTTTGT  | CTCTAGAATT | TCTAAAAATC  | CTTCAACTTG  | 9960  |
| TTTTTTTTATC | TCTTGTTCTG  | TTTTTTTTTAC | ATTTTGTCT  | GAACTTTCTA  | GATTTTGTTC  | 10020 |
| TGAATTTTTT  | AGATTTTCAC  | CACTTGCATA  | ATTCTTGCAA | GAAATCATCA  | ATGCAAAAAAC | 10080 |
| AGCACAAATA  | ATAAACATTT  | TCATTTTCTT  | ATTCATAAGT | TACTCCTAAA  | ATCCTTAAGT  | 10140 |
| CTAACGCAAT  | GCCTAATAAA  | TACAATTTTT  | CAAAGATTTA | AATATATAAT  | TTGTTCACAT  | 10200 |
| TCAGCTATCA  | CATATTAACA  | AAACGCAAAT  | ATAATTTTAA | CCAACCCCC   | AAAATCTCTC  | 10260 |
| CATTGCAAAT  | GCACCACTCA  | TTACAAAAGA  | CTACAAAATC | CATACAACTT  | AAATTTCAAA  | 10320 |
| GTCTTTGCTA  | TATATTAGAT  | AAAGTATACT  | GTCTTTCTTA | TCCGACACCC  | TCAAAAAATG  | 10380 |
| CCTATTCTGT  | TTATCACAGC  | CACTCCACAA  | CCCAAATTTT | GCATGCAATG  | AGAACACCCA  | 10440 |
| AAATTTGACT  | AAAATTTTAG  | GTTTTTGATA  | AAATATAAAT | TrCATTTTTTA | TTAAATTTTT  | 10500 |
| ATTACTTTTA  | CTTAATTTAA  | AAGTAACACT  | TCTAAGGAGA | GGATTTTATG  | GATATTAATA  | 10560 |
| ATTATTTTAA  | TTTAAATAAT  | TTCAATATGG  | ATTTTATGCT | CAAACATTTT  | CAAGATTATC  | 10620 |
| AAAATGTGGT  | AAATGAAAAT  | AAAATTCCTTA | AAAATTCACT | AAAAATTTCT  | TCTAAGCCTA  | 10680 |
| CTAAAAAAGC  | TTCAAAACCA  | ACTCCTAAGT  | TTTATTTAAC | CTCAAAAAGT  | AGCAAAATAA  | 10740 |
| TTGAAAAATG  | CGTyAAAACA  | TTAAAAmAAA  | yTGACCCwAT | TTCTGGTTGG  | TTTCTACATC  | 10800 |
| TACTCGCAAT  | AAGTGGGTGy  | AGGGGkGCMg  | AAATTCAAAA | AGTwAAAATG  | CAAGATATTA  | 10860 |
| CyCckCTAyT  | AArCAAACT   | GGAGAACTT   | TyTACAATAT | AAAAGTAAAT  | rTAGCTAAAA  | 10920 |
| AAAGAAATrT  | CACTTGyAT   | AGAGAAATTG  | TCATCAAATC | TGAAGAATTT  | GAGGCTATTC  | 10980 |
| AAAAAGCTCA  | CGAAAATTAC  | TTTAATGAmA  | AAAATCTyGA | CTCAmGGCGT  | ACyTAyCTTT  | 11040 |
| TCCAAAAAAC  | CAAACATAAA  | TTTAAAGATA  | ATCAAATTAG | CATTATCAAT  | ATTTCTAAAA  | 11100 |
| AATTTAAAAw  | TCTTCTyAAA  | AAATCAGGmT  | TTCGTGCTAA | TAAATCTCTT  | CATTTATTTA  | 11160 |

GAAATTTTrTT TATTTCAwAT TTAAAATCTA ATGGyTATAA yTCTTTCCAr ATTAAAGAAC 11220  
TTATGAAATA TCATTCAACt tCmgAAATTG ATAATATTTA TGGACTCTCT GCTGCTAAyA 11280  
AAATTCACGC TTATAAATGC ATGAAAAATA ACCTTAAACT TTAAAAAAC TACTTTAGTC 11340  
TAAATATACG CTTTGAAGTT ACTTTAAATA TTTTCCCACG AGGyTTCAAG TCAAGTGAAT 11400  
CATATAATAT TTCTTTATTT TTTGTTGCTA TAAAGTGATA TCCATTAACC TTATCGATTT 11460  
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AATTCTTTTT GTAGACTATC AATCTCCATT AAATCATACG CAAGATTTTC AGCAGATTGA 12120  
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AACGTATCCT CGTTAAATTT ATGTGCCATT AAGTATTCCT CTCTATAGTT ACTATAAATA 12300  
TCTTTTTTCA AATTTATAAT TTCTAATTCA CATTTATTAA CAAATTCAAA CACTTTTGAT 12360  
ATTAAGGCCT CATCTCTTTT AATCTTACAG TTAATTGGTG CAGCATCTAT TAAAAAGAAC 12420  
AAATTACAAT ACTCAAGCCC AGTGCATGCT AGCTGCATTT GTGCTTGTAy ATAATATTTG 12480  
AAAAAATATT TACTGCTTAA AAAATTGCCA TTTTATTGT ACTCAGCAAT AGCACTACTC 12540  
ATATAATTAG AGTCGCTACT TTTAATCTCT AATAGTTCTA AATCGCCATT ATTATTAATA 12600  
AACCAGCCAT CAATTGTTGA GCCCACTAAA GTTTCTGAAC TGCCCATTTT TTTGAAATAA 12660  
TTATACTTAT CAACwCCGTT GGCATATTTA TTTTATATA AAATATCAAT ATTATCACCG 12720  
TATGCTTTAA CAACTCTCT AAATCCTAAA TTCTCTAACT CTTTGCCCTT GAGCATATAT 12780  
AAATTCTCTT CAAAAGGTAG rCTCATATTA AAATATTTAA GCACTCTGTT TATCATTA 12840  
TCTTTCAGCC CAGCACCTCC AACAAGAATA TTGCCTACTT CACTAGCACC GTATTTATCT 12900

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|------------|------------|------------|------------|------------|-------------|-------|
| AACTTGTTTC | TTTGCACACT | AAAATCAATA | TTkCGATTAA | ATCTAAAACA | TTCTTGACTA  | 12960 |
| CTTATTCCTG | GTAATTTCTT | ACCTATCTTA | CTTAATTTAC | TTTTTTCTTT | AATGGGAGAA  | 13020 |
| GATTTTTCCT | CAAwTATTC  | ACAACCAGTA | AACTTTGT   | GATTAAYACT | TATCATTTTG  | 13080 |
| AGmTCTCCTT | GAATATTTTC | TTGTGGATTA | TTATTGTTTG | AAAGATTTTC | CATCTTTTTn  | 13140 |
| CTCCTTwTwT | TgTAwAAaT  | AAnTATATAG | CAAAACTAT  | TTTTGcCAAg | CTTTTTTaCA  | 13200 |
| AAAAwTTTTr | yAAAAAATA  | GTTGGGyTTA | TTTAAATTCT | CTTrTymAAG | AACTTAGCTA  | 13260 |
| AACCCAACCT | GATTGGATTG | TTTTGATAGC | AATAAACTTT | TTTAGCTATT | TACATACATA  | 13320 |
| TATATATGTA | TATATATGTA | TAACAAAAAC | TATTTTTGAC | AACTTTTTAC | ATAAATTATT  | 13380 |
| TTAATAAAGT | TAGGGTTTAA | TCAAATTTGC | TTATTAAAAT | AATTTAAATA | AGCTTTTCAA  | 13440 |
| TAATTGAATA | TATmTAATT  | TAGAATTAAA | ATCAATTTGT | ATTTGTTAAA | ATAAAAGAAC  | 13500 |
| CTATTTAAAT | TCTCTTGTTA | AAAAATTCAA | ATAAGTTCTA | ATTTATGAAA | AAGCAAAAAT  | 13560 |
| TAAGTGTTAA | TTrATAATAC | TCTTyATCAA | TATTATAATG | TrCCATTTTA | AAAAATCAAA  | 13620 |
| TTTTACAATA | CATTATTATT | TGCCACCTTG | TAAATATTTT | ATAAATAGGG | CATTCAAAAT  | 13680 |
| TGGCCCTAGA | ATTGCTGCTG | TTATTATCAT | AAAATGTACT | AGTCTGTTAC | CCATGCTAAG  | 13740 |
| TTTTTGATTT | AAACTCTTTT | CTACATTGTC | TATTTTGATA | TTCAAGCCAT | CCATTTTTAG  | 13800 |
| GTTTAAATTC | TTTTCAACAT | TGTCTATTTT | AGTGTTTAAA | TTCTTTTCTA | CAGTATCTAT  | 13860 |
| TTTAGAGTCT | AAATTATCTA | TTTTTAGATT | TAAATCTTTT | TCTACATTGT | CTATTTTAGT  | 13920 |
| GTTTAAATTC | TTTTCTACAT | TGTCTATTTT | AGTGTTTAAA | TTCTTTTCTA | CAGTATCAAT  | 13980 |
| CTTAATGTCT | AAATTAGATA | TATCCTTTTG | TAAATCTTTT | TCTACATTAA | TCAATTTTTTC | 14040 |
| TTTTAAAAAT | TCAAAGTTGT | AATTATCATT | ATGCAGAAAA | ACAAAATCTA | TTGCCTCTTC  | 14100 |
| ACTAAATCCT | ATCTTTAAAA | ACTCATTTTT | TATACTTTCT | ATATTGTATG | TTCTGTAAGT  | 14160 |
| CAAACATTC  | ATAAAATCTC | CATATTATCC | TTTTAATTCT | TTATATTCTT | TCATAAGTTT  | 14220 |
| TTTAATTATT | TCTTTTCCAT | CACTAAATAA | TTTATCTAAC | ATAAACCTG  | TAAATTTAGC  | 14280 |
| ATTACTTTTA | TAAAAATCAT | AACTTTCTTG | CTTTTTAAGT | TGAAATCTTA | AGGGTTTTAT  | 14340 |
| TGGATTTTGT | TTTGATTTTT | TTACTATTGG | GGTTTCTTGA | CTCTCTATTT | TATCAAGAGA  | 14400 |
| ATTGTAAATA | CCATTTTCAA | TTATATAATC | TTCATTAAGA | ATTCCTGCTT | GTAATGCTTT  | 14460 |
| TGCTAATTTT | AGATATATAT | AACTTGCGT  | TCTTGCCAAT | TGATAGTCTT | TTATAAAAGC  | 14520 |
| ATCAAACTT  | TTATAACCAT | CAAGTTTATA | GTATTCATTA | TCTTTGATTT | CTTTTAAAT   | 14580 |
| TCTAATACTT | TCGACCTTAT | AAAAAATTTT | CTTTTTTATA | TTAGTCTTTA | ATCTATTTTT  | 14640 |
| TAAATCATTG | TAATGAGCAA | ATATCTCCTC | TTTGGTAATT | AATTTTTTTT | CACCGTCAGa  | 14700 |



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| TTGAAATCCA TACGGATCCG TATGGATTTA TTTAACATAT TCATCATATA CAATTAAAAA | 14820 |
| TCTTGATAAT ACCCCTTTAT ATTCATTAAT ATAATCTTTG GTCATATCAA ACTCTTCATT | 14880 |
| TTTAGCAATT TTTTATTFTA AATCTTCTCG TTCATGGATA AATCCCAAAA ATCCTGTCTT | 14940 |
| AGATTCAACG TGTGTAAACA ATTGCTTATG AGTATTGTTT TTCTTAAATC GTGTTATAAC | 15000 |
| CAAAAATATT GGAATTTTTA TTTTAAATTT GTTCATATGA AATTCCAATA ATTCTAAACT | 15060 |
| TTCAACCGCC CATTTTTCCG CAGTCATTGG AACTATTATG CAATTACTAG TCATTAAAGC | 15120 |
| ATTTGACAGA GTGTAATCTA AACTAGGATT AGTATCTATT ATTACATAAT GATACCTCCG | 15180 |
| CTTTAAAAAT TCTAAATTAT TTTGCAACCT TAACTCTTTT AATGGTATGG ATTCGCTTAA | 15240 |
| AAATTTATTT AAAGTTAAAT AACTGGGGAT TAAGTCTAAA TTTTCTTTAA TCTTTACAAT | 15300 |
| TGAATCATTa ATATCTATTT TTTCTTTTAA CACTCTATAT ACATTAATTT TCACAATATC | 15360 |
| AATATTTTGA TTTAAAATTT CTTTATAAAA ATAACCTGTA GTGGATGCTT GTGTATCCAT | 15420 |
| ATCAATTAAA AGAACTTTAT GCTCTTTTGC AAGCAATGTT GCCATTATAA TAGCACTTGT | 15480 |
| ACTTTTCCCA ACACCGCCCT TAATTGACGC TATTGTkATT ATTTTAGGTT TTTTATTATC | 15540 |
| CATTTTATTA ACGGTCCTTG TTCCGGGTAT TTTTCCCAT AAAATTTATA TACTTGTTGT  | 15600 |
| TCTAAATCCG TAAACATACT AAATAAAACT TTGTTGTAAT GATTATTTGT TCTTTTTTTA | 15660 |
| TCTAATAATC GATATAgCCC tTTTrAAATAG CAAAAACAC TTCCGGCTTT AAATCTAAAT | 15720 |
| TCCATATAAT ATGCCCTTGC TAATGCATAT GCTTTTCTAG CCCCCTTTAT TTGATACTTT | 15780 |
| ATTAATGGCT TTTTATTGG TTTTCTGTAG CCATAAAAAA TACCAATAAA CTTATCTCCT  | 15840 |
| TCTTTAATTG GGTAYAAATG AGTTTCTTCA ACAATCTTT CTCCATTAAA TAAGGCCCTC  | 15900 |
| AATGATAATC TAAATTCGTG TTTTCTCTCA TAACTCCAA ATTTATAAAT ATCCATCATT  | 15960 |
| ATTTTGTAT GGTACATTGC TTTACCATTT TCTTTTTCAA TyAAAATAAA GCGTTCTTTA  | 16020 |
| TTTTGGCATT CAACTTTACA TTTACCTTTT TTTACAGTTT CAATAGGTTC TGGTGCAntT | 16080 |
| TCCATGTTAA ATCCTTATAC GGCCTTTATG CTAAATTCTT CTGTGGTTAA AGAATTTTTT | 16140 |
| TCATTTTTTA TTATTTCTrA TAATTCAAGA TGATATrTAC CAAATACTTT ATTGTATTCT | 16200 |
| ATTTTCTTTT GGTATTCAA ATATTyTTTk AyAATwGGCT TTAGAATTTC AATATTTGTT  | 16260 |
| TCTTTTTTTA GTTGTTCAAT AAGGATATTG AAAATATTTT CCTTTAAATT TTGATAAATT | 16320 |
| TGTTGAGAAT TTTCTTTTTT TCTTTCAATC GACTTTTCTA ATTTACGCTT TATATTGTTT | 16380 |
| AAATCGCTAT ATTTATGATT TTCAATAATA AArTGGGGCT TATATTTGTA ATTTTCGTAT | 16440 |

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| CTAGTGTTGT ATAGAATTTT TTTTAATTTT TTTTGTTTTT CTTTCATGCA AGATTTTTTTT | 16560 |
| ATATTGAATT TTTTATTAG GGCAATTTCA TTTTGTTTTA AGATATTTAT TGCCTCAATC   | 16620 |
| TTAGTATCTT TATCAATATT TAAATACAAA ATAGAAAGAG CTTCTTCCGT TTTAAAGTTA  | 16680 |
| CAATTATTGA AATAATTTCT TAGTTGATAT TTTTCTATTT CTTTAATCTT TCTTTCTTCT  | 16740 |
| TTTATATTAT TTTTATTACT TAAACACTCC ACTGAATTTA CACTACTATT TTTTGAACA   | 16800 |
| TTGTCTTTAA AATGKTATT AACTCTAGAT TTAAATCTAG AGTTTTTTTCG TTCTTTAAAG  | 16860 |
| TACTTGTTGA TTTTCTGGTA ACATTCTTTT TTAGGATACT TTAGCTTATA GTAAATTTCA  | 16920 |
| GTTCCACAAT TTACACCCAT GTGTTGGTAG TAATTAGTTG TrACTTTTAA TACTTTTTCT  | 16980 |
| AATTTGTAAA GATAATTTTG CATTTGTTCTT AGTGTAAGTG GAGCTAGACC ATTTCTTTTT | 17040 |
| AGATTTTCAT TAWAGTAATA GAGTATGTTT TGTGyGTGT ATTTCTTATC TTTTTTGTTT   | 17100 |
| AGAwAATCTA GTGTTGAAGT AAGAkATATT AATTTGTGTT GGTGTTTGTT GTrGCAAGTk  | 17160 |
| GGAnTTTTTG TrkTATTTTr AAAACCTTTC ATrTTTTcTC cTnTrTTTGt ATTAATrmTT  | 17220 |
| AnTATTATAA TGCAAAATTT TGATTTAAAA GTAAATACTT TTCTAAAAAA ATATTAAATT  | 17280 |
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| ATTTTAATTc TAAAtTGGGC TACAATACAA ACAGCGTAGT TATTTGAACA TTTTTCAGTT  | 17400 |
| TTAACTACCT GTTTTTTCAA TTTACAAAAA AATTTTTAGC ACGGGCTTAA CTAATTTCTT  | 17460 |
| TAGTAGATAA TAGAGAATTT AGCTAAGCCC TATTTTTTTG TAAAAATTTT TGTAaaaaAG  | 17520 |
| TTGGCAAAAA TAGTTTTTGC TATATACTTA TATTTATTGA AAAACAGGA GGAAAAAGAT   | 17580 |
| GGAAAACTCT TCAAAACAATA ATAATCAAGA AATACAAAAT AATATTCAAG CAGAAATAGA | 17640 |
| CTTTTTAAAT GATATGGATA CTTTAAGAAAT GAACTTGCCA CTTATTGACA AAAGTCTTAA | 17700 |
| AGGATACGGA TATAAGTATC AAGATTTCAA TGTCATAGTA GAAGTAATTC AAAATGTTAT  | 17760 |
| AAAAAATCAC AATTTAAAGC TTGGTTTTTG GCAATTTCCA ACTTTTGTGT ATGGTAAAAA  | 17820 |
| TGGTGAAGTT CCTGTTGTTA GGACTACATT TTACAGTAAA AGTACTGGAT ACAAAGAGTC  | 17880 |
| GCTTGATACA TTAATTCATA CAGATAAATT ACAATGGAAC GGTGAAAATG GGTCTAAAAA  | 17940 |
| TTTGAATACA ATGCCACAAC TTGTTGGTGC AGCTATTACT TATTTTAAAA GGTATGCTTT  | 18000 |
| AGTTGCGTAT CTTGACATAA AAAGTGAATT TGATACTGAT GCAGCACCTA TTTACAATAA  | 18060 |
| TCACGAAAAC GAAAATTCTA TGCCTAGCAA GCAAGTTAGT GTTAATCAAA AACAAGAACA  | 18120 |
| AAAAAAGGAC ATAAATCAAG AAAAAAATCA ACTAAACAnC TTTAATAAAA ACTTrAAATC  | 18180 |
| TGGCAAGGCT TATTGCTATG AAATTTTTAG AGACGCACTG TTTAATATAA AAAATTGGGT  | 18240 |

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|            |              |             |             |            |             |       |
|------------|--------------|-------------|-------------|------------|-------------|-------|
| ACATAACATA | CTCTGAAAGT   | TGTGTTTCAT  | ATTTAGCTAA  | AGATTTTAGT | GTTGGAATAA  | 20040 |
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| TTAGyAGACA | ATGCAATCTT   | TTAAGCATTT  | TCACCTCTTT  | TAAGTATTTT | GATATATTCT  | 20160 |
| TTCATGATTT | TGTTACGTGT   | TGCTTTAAGT  | GAAGTGATAA  | TTCTTTTGCT | TTTrTCAGTA  | 20220 |
| GAGATAGCCT | CTATTATCTC   | AATGTTGTAT  | TTTAAAATGT  | CTTGTATTTT | TTCAAATATT  | 20280 |
| TTAGTTGACT | CAGCTGTTTC   | CATAGATTTT  | AGTGTGCTTA  | TATATGTTTT | GTAGAAAAAA  | 20340 |
| TCTATTACTT | TACTAAAAGT   | ATTAATGTAA  | TTATGATCTA  | TGTTTGTATC | AGTTTTTAGCT | 20400 |
| ATGTTAGTTA | AGCTGGATAG   | TAAATTAAGT  | CCTAAACCAA  | TAGTGTTATT | TTGCATTATT  | 20460 |
| TGTTCTTTCC | TTATAGATAG   | GTTTTCTTTC  | CTGATTGAAT  | TTCAAGTCAT | TAGATATTTT  | 20520 |
| GAGATTTTTT | TCATCAGAAT   | TAACTAAGTC  | AATGCATTGA  | TTGATTTTTT | CATTTAATGG  | 20580 |
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| TCCAAGCTCA | ACATTATCTT   | TGGATAATTT  | CATAAGTTAA  | TCTCTTTTTT | TAATGTGATT  | 20820 |
| TTTGCCATTA | CCATTACCAT   | TCTTAAAAAT  | CTTGCCTATT  | ACAATAGTCA | ATATGTCTTT  | 20880 |
| TAGTAAAGGC | TTGAGAAGAA   | TTAATACTCC  | TAAAACCAGC  | ACTGTTACAA | AAATCATTAC  | 20940 |
| CGCTATAAGT | TTAATTTTCGT  | TTAAATTGAT  | AAGAAGTTCG  | GTTAATTTAA | TAGTATCCAT  | 21000 |
| TTTTTAATCC | TTCATTTTAA   | TTTTTTATTT  | TTATACGTAT  | ATTATATACC | AAAATCATAA  | 21060 |
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| TCTTTTTTGG | ACATACCATC   | CTTTATAAAT  | GGAATTTCTG  | GTGAATAGTC | CGCGGGGGCC  | 21180 |
| CGCAATTTCA | TAAACCCTAT   | TGTATGTAGT  | TTCATCAGAA  | TACTGAAGTT | TTAATGATTT  | 21240 |
| TTTCTGCATC | CTATTATCAT   | TGATTTTTTAC | TTGAATTTCA  | ATATCAAGAT | AAACGGGAGA  | 21300 |
| ATTATCGTAA | CTTTTAGAAA   | AAATAAGAGT  | TACATCATCA  | TTGTCTTCCA | TATTAATArA  | 21360 |
| TATCGCGTTA | TTCTCATAGT   | CAGAAGGATA  | AAGTG TAGTA | CTTCTAGTTA | TGCTGCCATA  | 21420 |
| AGCAArATTT | GATGGTACTC   | CAAGTATATG  | TTTAGGAACG  | GGTGTTTTTT | GAATAGTATC  | 21480 |
| TGATGAAGGC | ATTATCAAAA   | GATsATCACT  | TCTAGATAAA  | GTGGCTGATG | ATATGCTATC  | 21540 |
| TGTAAGGCGT | GATTTAATTT   | TACTAAAAAG  | GTTAGAAATA  | TTAGTAGAAT | CGTTGTTAAT  | 21600 |
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GCTCAGCTGA GGCCAAATTA CTTTGAATAC TCTCAGCATT ATTGACTTTT TTTGTAAGGC 26220  
CGAAAGATTT AAAATCCTCG AACATTTCCA TCATCTTGGT AATTCTAGAC TCTAGATCTA 26280  
CTTGTGCCCC GCTTTGCCAG GCCATTTTGG CATCTTCTAT ATATTTGTCT CCAACACCTG 26340  
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TTACTGCATC TTCGCTGCTC ATAGCACCAC TGGATTTAAG CATAGCTGCA AATTCTACTG 26460  
CGTTTTTCAA ATTAGTTTCA TTTAACATAT CTAAATCCCT TAAAGTACCC TTAAAGACAC 26520  
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CTCCAACCTT ACTCATAGCG TTGCTAATGA TATTCCTAG GGCACCTACCT ATAGCAATTT 26760  
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AAGCCTCTTT TCTAGCTTTC TCAAACCCCA TGCCCTGTTT TATAAGTTTT TTAGTTTGTG 26940  
TAAGTCTATA TTTCTCAACA CGCTCTCTTA AGCTTTCAAA TTTAGATTGT CTACTAAGTT 27000  
CTTTTTTCTT GTCCGACAAA TTATTTTTTA CAATATCTTT AGTGCTACCC AAACCTAGATT 27060

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| TTTTAGGTTT AAGATATTTT TCCATTTTAG AAATATCTTG TTCAATGGCC TTTTTTGTG  | 27120 |
| CAGCATGATC AAGAATACCT TTAAATTTAA TGGTGAATTT GTCGCTCACT AAGTCCTCAC | 27180 |
| TTGCTTAAAA TTAATTCATA CAATTCTTTT TCTAATTTAA TCTCAGCAAG TCTATTGACT | 27240 |
| TCTAAAAGCT CGTCATAAGG CAATTTTTTA ACCGAGTmGT ATGAGCAAAT ATTCATAATT | 27300 |
| ACTGGaAAAt AGTATTTATC GTTCTTAATC TCGTCAAGCA AGTTAAAATA TTTTTTTCTA | 27360 |
| GTCTCATCAA GACTTGCAAT AGCTTTATCA ATATCTCTAT TTCTTTTGyT CATTTAGCAA | 27420 |
| CCAGCTCATT GGAATTTGAT GTAmTTGATG AAAGyGAAGT GGCTACTTTT TCATAATCAA | 27480 |
| AATTTTCATT AATATAGTCA AAAGCAACAA AATCACCAAC ATTATTTTCA TACTCACTCA | 27540 |
| AATATACTAA AGCGGGCTTT TTAGATCAT TGTCTAAATG AAAAGTATTA AATTGTGCAG  | 27600 |
| TGTAAATTAT TGCAACAAGA TAGTCCTTAT AATAAGAAAT AAATCTCTA TTTTGATCCA  | 27660 |
| AAATCACATA GAATTCGTCT AAAAATTTTG GACTTATCAT TAAGCTTGTG ATTTCTCTTA | 27720 |
| AGTATTTAAC CTCATTAAGC TTTAAAACAG CGTCACTTTG ATTAAATCCT AGCACTTTAT | 27780 |
| CCCATTCATA GACGGGAAGT ACTCTCAGCG GATATTCATA AGTTTTATTT TTAGTTAAAA | 27840 |
| TTTTCATTTT ATATCTCATT ATCATAATAA GAMTCTCCTT TTAAGwGTTG TTTGGTTTAG | 27900 |
| ATTTTTGGCA ATTAATAGCC CTAATTTCAA AAGATACTTT TTCGGCCTCA GCAGAATAAC | 27960 |
| TTCTTGAAGG CTCTTCAGTA AAAATTGCAT AGTTAGAAAT AATTTTGGTA GCAATTCTAT | 28020 |
| CATTGAATGC TAAATCAAGC ATTTTATCCT CTTTTCTCAC ATCCATGTTG TAAAACTGTT | 28080 |
| CATCAGAAAG TTCAGTTAAC AAAATGTAGT CATGACTACC TAGTGTCAC TCAATGTTGA  | 28140 |
| AAACATAAGT TATTGTTTTG GGATCTCTTA AGCTTATTAC AGGCATACCT TTATCTTCAC | 28200 |
| TACTAATCAC TGCTCTTGTT GTAGGTTTCG TGTAAAGCTC TAGCTTGCCA CTATGTAAC  | 28260 |
| GCGTACCACC AATTGAAAA TAACTTCTC TTAAATCATA AAATTGCATT TTTAGCCCCC   | 28320 |
| CTTTTAAGCA CTTAAGCTGT TTTGATAATC AACTATATCT TGAGTAGTAA TTAATAAGC  | 28380 |
| AACAGCATTa ATGCTAAAGT TATAAGTAAT ATTCACGCTA AGTTCTAATT TAAGTTGTGG | 28440 |
| CGTAGGAGAA AGAGTAAGCC TTAAATTTTT ATACTCTATT ATCAGTCCTC TATCCACAAA | 28500 |
| CCTTTTCAGT AAACATTCAA TTGCTGAAGT ATATGCATTG TCTCTAGCTC CACTAAGTTG | 28560 |
| TAGTGCAGAT AATTTGCTAT TTTGCCTATT GTTTTTGTTC CAAATTCTAA TAAGCTCAAT | 28620 |
| AATCGCTTCr TTTTTTATAT AGTGGTATGT AAATTGTTTC TCTATTGCAC CTCCAGCTAG | 28680 |
| GTCAACACCT TCTTTAAaG CrGGTACACC ATCAAGCCCA GTTTCATTAA GAAGTGAATA  | 28740 |
| AAAGTTGATT TTTGCAGTTC kCAACTTTCC AATTACAGTA TCATCAACAA GTGGTGTAGC | 28800 |
| AGCCAGCGGC ATGCCATAAG GATTACAGC ATGAAAAATA CTAGCTTGAT GkArATATTG  | 28860 |



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| ACTTATAAAT TTrAGGTGTA AATTGTCTTT ATTrTTTrCTG TAAACAGCAA TATTTCTTTC | 28920 |
| TTTTTCAGTA TTGCCTTTAT CTTTAAATAG TTCTTTTATT TCTTGTTCTT TAGTCGAGAA  | 28980 |
| TACAAAAAA rTTGAAGGyn TTTTrAAyTT ATyATArTCA TCTTTTrTAAA TyTTAAGTCC  | 29040 |
| ATCATCkGAm kyATCnCCCT CAGTrTTAAT AAGTACAACA AAAGTGTGTC TATGTACTTT  | 29100 |
| AAGATAwTTT TTTArCTCTT CrGGyTTATC CTTATAAATr AAAAGATCGG CTGATTTTAA  | 29160 |
| yGATTCTTCr CTTGAATTGA AAAAATTyGA CATTGCAGTT TTAAGCAGTG TTTTTTCTTT  | 29220 |
| TCCAAACTGA TCTTsTCCAT TyCCATTmTC TTTTTCTAAA GTTTCAATTT GTTTTTCATA  | 29280 |
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| AGCTGTTTTG TAAACCAAAA GTGGATTATA ATAATTrGGC CTACTAGCTT GAATTCTAGA  | 29400 |
| GTCAAGCAAA CTTACACTAA TTGTATCTTG CGGCAATTTy GTATTCCTCC TTTAAAAATTT | 29460 |
| CAATTGCTTT TACACTAGCA TTAAATGCTA TAGATGCACT GTATGCATGG TTGCTATATT  | 29520 |
| TTGTGCCTAA ATTAATCAGT CCAACTGTTT GCATATTAGA TGTGGGTAA ATGTArAAGT   | 29580 |
| TAATTTTATT AATATAkTCG GGTGTAGAC TGGGCAAAkT ATACTTATGA GCTTTATTGT   | 29640 |
| GTAAGAAAGTC ACTAAGCATA CTATAAGCA TTAACATGCG TGAATTAGCG TCAAAGTCTT  | 29700 |
| TGGCGTTTAA CACTATTGCA ATAATATATA TTTGAAAATT TATACTAAAT TCCAAAGCAT  | 29760 |
| TTTCATAAAA TACACCGGCT CTAKAATTAT GATCAAATAG ATTTTCTGTA CCATCAAATT  | 29820 |
| TCAATGCTAT TATATTTGAG CTAGCAGCTG TGATTTTTGA AAGATATGGA TGATTGTAGG  | 29880 |
| TATTTATGAT ATCGCACTCA AAATTATTTT CAGTTGCATA yGCCTTAAAC CCTTTAAATA  | 29940 |
| TTTGrGTAA ATGATTTAAT ACCATATCTA AAGTGAAAAT CATTCAAGTG TTACCTTATA   | 30000 |
| AGTAATCTCT GATAACATTT TGGCTGTATC AACAAGTGGA ATTGCTGCAG TGTTACTACC  | 30060 |
| CCTTTTAAAC TTACTTTTGA TTGTATTAGC CTTTAAGGCT GGAGTGACTT GTGCTGATAG  | 30120 |
| TAGATAATTT TCATAGTAyC TTATAAAAGC TTGTCCAATA GCCTCCATTC CCGATTAGG   | 30180 |
| GTCAAGATTA AACTTAGAAT TTATATAGCT ATTATTGATA TATTCCTAA ACTCAGAACT   | 30240 |
| ACTAGCAATT TTGGTTAAAT GTTTTCTTGC TGGTAAATTG CTACTCCCTT TTTCATGCAT  | 30300 |
| TTTAGCAATA CCTGCACGAC CACCAAACCA CCCAATTTCC AATTCATTT TAAATTCTAG   | 30360 |
| TTTGTCCATA TAAATTCCTT TAAAACCAAA GTAAAATATC CkATTGAAGA GTCAATACTA  | 30420 |
| AATATTTCAA AGTAAACTAA ATCTGCAATT GATATTCGGT CTTTTTrGTTC ATAGTTAAGG | 30480 |
| TCTTGATATG TGTAAGTTT GGAATATCCT TGAATATCAG ACATATCAGA ATCATAAAGA   | 30540 |
| ATTGCAAGTT CTTGTGGCTT TATGTCAATA ATAACCTCTG CrAATTCArT GTACTTAKTT  | 30600 |

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| TTATCAAATA CTCTCTGATA AGAAGAATCA TTTTCAAGCT TTACAACAGT ACCTTTATAA  | 30660 |
| AACTTTAAGG GTTTAGGATC CTTAAATACG TTGATCATGC GAAATGACAT ATCAGAAAGT  | 30720 |
| CTTTTyCTAA CACCATTTCAT TAGACAACCC CCACACAAGA TGGCGTTGAA GTTCTCTTTT | 30780 |
| TTAGTTTTTC TAAAAATGCA TCAAGTTGTG AACAAAAATT CTTGTTTGAG CCACAACyCC  | 30840 |
| CCTCGCCrCC TTCTTCGCCT CCACTGCTAC TAGGATAATA ATCAAGTTCA AGTTCATTGA  | 30900 |
| ATTTCTCTTT TTTGATCCTA TCAAATTCAA ATTCTCGAAC AACTCCCTGT TTTCTTAATT  | 30960 |
| GrCArCCCAT ATGGTAaAAG gTAAGTAAAA ATATTTGTTC ATAyGTmAGT GAACTrGCAT  | 31020 |
| CAATACCrCG TGTTACTAGA ATAGCTTGAA GTAAAGATAA ATGAAGTAGA AAATTTTGyC  | 31080 |
| TGCTTAATGC AAGTTTGTCT ATTCCTAGTA ACAATAACAC TTCaGAATrA AGTTTTGTTA  | 31140 |
| CCAAAAGTTC TTCTTCAGCC TCAACTTGTG TTTGTAAGTT TTTTGTTCG CTCACTTCGA   | 31200 |
| TTTACCTTAT GTTTTTAACT TTGTTTAATA TGTAAGTGA AAATAGTTTT TCTAGTAGCA   | 31260 |
| AGTArCCCTC CTAAAACAAA ATCAATGTAT GAATGAGCAA TATCAGTTGA ATCTTTATCC  | 31320 |
| ACTTGTTTCAT TTGGTGTAGG TAACATATAC TTGCTAGGTT TAAACTTAAT AAGCTCTGGG | 31380 |
| TTTAATGGGT AAATAAGTAT TTGATGTTTT AGCAAGTTTG AAGTTTCAAT GTAGACATCT  | 31440 |
| TCTCTATTAT TAATAGCCTT GATAGTTTGA ATCAAAACAT CCTCCCATT TTCGCAGCTA   | 31500 |
| CTTGCTGCAC CCTGTGCTGC TGCGTATGGC TTTACGAGTT TGAGmGAAGT TGTAGGGTCA  | 31560 |
| ACTATTACCA TCATAGGTGT AGAAAATTCG TCTCCTAGCT CTAAGTTTGA AAGTCCCGCC  | 31620 |
| TCAATTTTTT CAAATTTTT ATCCATTTTG TCCTTATTAG CACTTCAAC CTCTCTTTTT    | 31680 |
| ACTTGATtga tGTGGCATAT TAAGAAGTCC ATACATATTG GGAAGTAGAC GTTTTTGATT  | 31740 |
| TTTTCCATCT TTTTGAATTG AAACAGTGCC TGTTAGTACA AAGTGATTAA TAAGTTTAAT  | 31800 |
| AATCTCGCTA CTTGCAAGCT TATAGGCTTG AGAGAAAGGA AGTAArTTGT TATTAATGTC  | 31860 |
| ACCAAGATAT GAGTCTGAAG TGTAAAATTT TTCAGACGCC TGCTTTAAGT GCCTAAATTT  | 31920 |
| GTAAGTGAAT TTTAAGTAAT TAAGTCTTAC CACTTCAGAA CTAAATCCAA TAGTTGAAAT  | 31980 |
| AGTATTAAcy TCATTAGCAA TCGTTGTAGG ATTAGCATTT AAAAACGCAT CCCACTTTAC  | 32040 |
| AGTTCTTTGG TAGCCCATCT GAAGATCAAC ATCTTCAATT TGATCAGGCG AAAACCATTT  | 32100 |
| ATACATTATA GGATCTTTAA CTTCCCCTAT AATATTAGCC ACAGCTTTTG CATAATAATT  | 32160 |
| TTCATCAAAT AATTCCATAT TAAATCCTCC CAAATATCAT TAATTTTTAC TTACAGCTTT  | 32220 |
| ATTTCCAAAT ACTGCTACTT TTATTAAAwA AACATCGTTA CTAATTTGTT TTGCATCAGA  | 32280 |
| CAACGCTATy GCATTAATAG TTGCCTTATT TGGTGGTGCT CCAGTCACCT TTTCAAGAGC  | 32340 |
| ACCGTCTTTA TTA AAAACAA GTTTGTCTTT TACTTTAAGC GTAGAATCTT TTGCTACTAA | 32400 |

ATAACCCTCA AAATTATTTG TAATyGGAAC AATAGTGGCT GTTTTGCTAA ACTCATCTAT 32460  
ATCAATGCAT ATCCGTATA AATCATCTTC ACCACCAGCC TCAACGTGGG GTTCATAGTG 32520  
AATTTGATcA GCTTTTTCCCT CTTGAATAAC TCTTTTTACC CCACGCTTrT ATGGATAYCC 32580  
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TTGTAACAAG ATACCCTTCA AAGTTATTCG TAATTGGTAA TACATACGCA GTACTACTAA 33120  
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CTCGCKcATT CTTTGATTTA AAACAACCAC CCGAACTACT AAAACCTTA TTTTCAATCG 33360  
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CTATAGCATT AACAGATTTA TCATTTCCTT CATTCCTTTT AAGCTCTCCT TGTGCATTAA 33720  
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CGTGAAGTTA TTTTrTAATTG GAACTACAGT TGCCATGCCA GTAAACTCAT CTATATCAGT 33840  
GCATATTCCG TACAAGTCAT CCCCACCACC AGCCTCAACT TCTAGTTCTG TTGTACyATC 33900  
TGCACTAAAA CTAAGCTTGA CTCCACGCTT GTATGGATAC CCTTTAGCAG GATAATTTTC 33960  
TATTTTrTCT TTAATACTAG TAAAACTCC ATCCGAATTG GAGTAAATTA GATTTTTATC 34020  
TCTAAArTCT ACAGAATTmC TAAGCAAACC AGCATCTTGC TGAGGATTTT TCATTAATGC 34080  
TTTAATTTCT GCAACTTTTT TATCAAATC TTCTTTTATT TTTGTAATAC CATCGCTCAT 34140

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|-------------|------------|-------------|-------------|------------|------------|-------|
| TAAAAACTCC  | TTTAAGCAAT | ACTTGTTCTT  | TTATGTCTTT  | TTAGATTTTC | ATAAAATTGA | 34200 |
| ATTTCGTCTTT | GCTTGTAAGT | ATTACTTATC  | GCTTGACAA   | ATTCTGTGAA | ATTAATAGGT | 34260 |
| ACAAAATTAG  | AATCAAGCAA | ACTTGCTCTC  | TCTTCTGATT  | TAACAACAAT | ATTGCCTCTG | 34320 |
| ACAGAGTCAA  | CAGAAGAAAA | ATTGCTACTC  | GCAGTTTTTC  | TTAATTTAAT | ATTCACCTTT | 34380 |
| GCTAAAGAAA  | CAAGTTGCTC | TAACATCTCT  | CCATCGATAT  | GACTTATGTC | TGATACTTTG | 34440 |
| GCAATAGCTT  | TAATTTGCTC | AATTGGAACG  | AACTTGCGCA  | CAAGTTCTCT | ACGTTGTGCT | 34500 |
| TGCATAATGT  | CTTTTAATGT | GTATCCTTTT  | GCAAGCAACA  | CCTCCTTATT | GAAATGATTG | 34560 |
| CTAAGATGTG  | CTTTTGCAAG | TGTATCAATT  | TCATTTATGC  | GCTCAGCCTC | TAGyAAyAAT | 34620 |
| TGCTTTTyAA  | TACGCTCCCK | CTCTTCAACT  | TCTGCrAGTT  | CTTTTGTTAT | TCGTTCACTT | 34680 |
| ATACTTAAAT  | CTCGACTTGT | CTCTTTGGAT  | TTACTATTTG  | CTTGCTCTTT | AAAGCGCATG | 34740 |
| TACTCTTCAA  | ATTCCTGCGC | ACTTATAACT  | TTAGTATCAG  | CCTTATTTTG | CTGCTCTTCT | 34800 |
| TTATCTTGTG  | CTTGCAAGTC | TTCTTTTTCT  | TCTTCTCAG   | TCATCTTTTA | ACTCCTTTTC | 34860 |
| TCAAAATGAG  | AATAATTTCT | CTTTTAAAT   | CGCTArCTCC  | TCATTATCAA | AGGAGCTACT | 34920 |
| TTGTATAAGC  | TGGTTATATT | TACTGTAAAG  | CTCAATTAGC  | TTTATATCTC | TTTCCACTTT | 34980 |
| TTGyTCTTCA  | CTTAACATAA | TCAGmGAATT  | AAAyTTCATA  | TCAAGCCCrA | AATACTTTGT | 35040 |
| AAGTTTyAAR  | TTACAAGmGT | TCTCAAyTTG  | TTCTTGCAACA | CCTtTrAgAA | AATCGTAATA | 35100 |
| ATTACTCCTA  | TCmCCTTTAC | CAyCATTTCC  | TArYcCTTTA  | GCCTGTTCrT | TAAARcTTCT | 35160 |
| GGTTAAGGGC  | TCTTTAGTAT | CTGCACCAAT  | TTTTGCCTTA  | ATTAATGCTA | AAGCCTCCyT | 35220 |
| TAAGTAACTA  | AGrTCGTATT | TAATAACCTC  | TAAACTAGCA  | CTAGGGGTGG | CCGTATAAAA | 35280 |
| CATTCCCTCA  | TTATTTAGAT | TrCTTTTTTAG | CCTAGCAAGC  | TCCTGTGATA | ATGAGTCATT | 35340 |
| AAGGTTTCTT  | AAATTAGAAA | TATCTTTACT  | ATGATTGTTT  | GAATTTTGTT | TTCTCAAAAA | 35400 |
| AGAAGATAAA  | ATGCCACTTC | CCCTATCATT  | ATTrCTCTGA  | GTAAGTGCAC | TTAAAGAAGT | 35460 |
| TGTTGCGCTA  | GACAGTGCCT | CTTGTAAGTTG | TACTAAAGAT  | TCATCTTTGT | AAAAC      | 35515 |

(2) INFORMATION FOR SEQ ID NO: 6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26811 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GTTGTTTATA CATTATTACC TTCTTTGTAT AAAATCTATC CAATAGAAAA GTTTTAAAAAT

TTTTCTATTG GATTAGCTGT TTTTATATTA TATTTTAAAA ATTTTACATA AGCTTGTCGA 120  
TTTCCATTTT TATATTATCG GACAATCCTC CAAATACAAT TTGAACACTA TTTCTTTTTT 180  
TTAATATTCC ACTGGCACCT AGATTTTTGA AATAGGCGTC TGATTTAATG ACTTCTATTT 240  
GTTTTAGATT GACTCTTAAT CTTGATGCAC ATGCATCAAT GTATGTAATA TTATCTTTTC 300  
CTCCAAGACC CTCTAATACT TTTGAAGCGG TTTCTGATAA GCTTGTTTTT TCTGAACTCA 360  
TCATGGTTTT TTCCATCTCT TCGTCTTCTC TTCTATTGT TTTAAGATTG AATTCATGA 420  
TTGCAAATTT AAATATAAAG TAAAATCCAA TAAAGTAGAA GATTCCCAAG ATAGGAATTG 480  
CTATCCAATT TGTTTTGCTA TTTCCCTGAA GTATTCCAAA TAGGAACATA TCTATAAATC 540  
CGCCAGAAAA TGTTAGTCCA ACTCCTACGT TTTAAAGGTG TGTTAAAAGA TATGCTAGTC 600  
CAAAAAGAGG AACATATATA AAGTAATAAA GTGCTGGTGC TGCAAAAAGG AATGCAAATT 660  
CAAGAGGCTC TGTAATTCCT GTTAACATTG ATGTAAAGCT AGCAGATAGT AGCAATGAAG 720  
CTACGTTTTT TTTATTTTCA GGTTTTGATG TATGGTACAT AGCAAGCGCC GCCCCAGGTA 780  
ATCCAAAAAT CATAACAACA AATTCCTCCG TAAAAAATCT TGTTCCTTTT GCAACTTCAA 840  
AGTGACAGT ATTGGGATCT GCAAGTTGTT TGAAAAATAT ATTTTGTGCT CCTGAGATTA 900  
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TGTGGTGGAG TCCAAATGGA ATTAAAGATC TTTTATTGCT TCCATATGCA AATGTTCCAA 1020  
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GAAGAAAGAC AGCAACAAAT CCTGCTATCA ATCTCCCAT TACGCTCATT TGAAGAGAGA 1260  
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CTAATTCCAA TAGTGCTTTT AAGCTTGCGC TTTCTGGTGT GATTCCTTGT ATGTACAAA 1380  
TCCCATTAT AGTTTGATGC ATAACCAAAA ATCCCACTAC TCCTGCTAAA GCAGCTGTTC 1440  
CTTTTTCTAC TTTAGCAAGT CCGATTGGAA TTGCCGCTGC AAACATTAAG GGCAGATTAG 1500  
CAAAAATTAC TTCCCCTGTA TATTTCATAA GATAAAGTAT TGAGTTAGCA ACAGTTCCTT 1560  
TTCCAAGGAC TTCTTCTAAT CCATAAGCCT GAATCATTGT TTCATTAGTA AATGCTCCCC 1620  
CAATTCCCAA TAAAATTCCA GCTGCTGGTA AAAGTGCTAT TGGAAGCATG AAGGCTTTTC 1680  
CTATTTTTTG TAATATTGTA AATATAGATA TAGATGCTGA TGATGTTGAC ATAATTTTCC 1740  
CCTTTTTATT AAGTGCAAAT TAATTAATTA AAATAATTAA TTTGAATAAT ACGCTTAATA 1800

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|-------------|-------------|-------------|------------|-------------|-------------|------|
| TCTTAACAAG  | ATTTTTTAAT  | CTTGTAATA   | TCAGTATAGA | ATAAATGATA  | GTATATTGAA  | 1860 |
| TTGCTGTTTA  | TAAAATTTTG  | TATTTATAAA  | AAACATTAAA | GATTGTTTTT  | CCCTTTAATT  | 1920 |
| TCATGGCATT  | TGTTATAAAG  | CATTGCTTAT  | AATCTTCGTT | TTCATTGAAA  | TTATTTTAAA  | 1980 |
| TTAAATTTAG  | AAATAAATCG  | GATCAATTTG  | GATTAGGGTG | TTTGCAATGG  | AATTAATCAT  | 2040 |
| CAATTAGCAT  | TGTAAAGTTA  | AATACCGATT  | AAATATTTAT | AGATTTCACT  | AGTTTTGTCA  | 2100 |
| GAGTAATCTA  | TGGGCAGTTT  | ATTGTCGCCA  | TCTCTGATAT | TTGGATTAGC  | GCCTTTTTTCG | 2160 |
| ATAAGTGATT  | TAATAAAATT  | TAAATCATAT  | TTTTGAATTA | TGGCACTATG  | AAGAGCTGTT  | 2220 |
| TGAGAATTTT  | GATTTGTAA   | ATTAATATTA  | AATTCTTTTG | TTATTAAATA  | ATTTATAATA  | 2280 |
| CTTTTTGCTT  | TTACATTTAT  | GGCATAAGTA  | AATATTGGAT | TGCCGTTGGA  | AAATATTGTA  | 2340 |
| TTTAGTGAAA  | AAATATTATT  | ATTTTTTAAT  | AAAAATTCTT | TAAAATCATC  | AAGTTTATCA  | 2400 |
| TTTTTCAGTTA | AATTTTGTAG  | TTGCTTTTTT  | TTCTCAATGT | ATAAACCATTA | TTCTTTTTTG  | 2460 |
| ATTTTTATTG  | CCTTAAGAAA  | ATCATCTTTA  | TTTTCTTGCA | AGTCTATGTA  | ATAAGGGCTC  | 2520 |
| ATGTCTATAT  | TATTTTTATA  | ATATTCTATG  | GGAGTGATAA | TATTTTTTTC  | ATCAAGATAG  | 2580 |
| TAAACGTTTA  | TTAGTTCTTT  | GAAGTTTATG  | TTTTTATTTT | CTGGGATTAG  | ATCAAATCTA  | 2640 |
| ACTTTATAGC  | TTTCAAATTT  | TTTAAAAGGG  | ATTAAATTAT | AATTTTGATC  | GTAAAACAGT  | 2700 |
| AATTCGTGTTA | TTTGTCCGTT  | TGTATTTTTT  | ATAACAGGAA | TAATATTTCC  | ATTCTCATCA  | 2760 |
| ATACTTATTT  | CTGTATTTTC  | TCCATTTAGA  | ATAGGTAATT | TATATTTATT  | ATAAATAGGG  | 2820 |
| GTAATATTTT  | CTTTTATTTG  | TTCTAGTTTT  | TCTTTAATTT | CTGAATTTGT  | TGTCCTAATA  | 2880 |
| TAATTTTTTAT | AATTTGTTTG  | AATTTCATAA  | GAACTTTTTC | CAATGTTTTT  | AGCATATTTT  | 2940 |
| TCAAAACTAG  | CATTAAACAC  | TGTATATAGT  | GGATCAAATT | TTGACATCAA  | TTCCATTCTT  | 3000 |
| ATTGGTACTG  | GAAAATTTAG  | TAGGTATTTT  | TGAAAAAATT | GTTTCGTTTAT | TTTATGTATT  | 3060 |
| TCGAAAAATT  | CTTTTTTCGAA | AATATTAAAA  | TCTTCTAATA | ATTGCTTTTC  | GGTGAAGTAA  | 3120 |
| TAAGATAAAT  | TTGAACATAA  | AATAAAAAGA  | GTAAAAAAG  | TTAAATAATA  | TAAAAAGTAT  | 3180 |
| AAATTTTTTTA | ATTTATCTCT  | GATTTTATTT  | CTTAAATTTT | TATTGAAAAT  | TGTAAAAGAT  | 3240 |
| AAAAATCCAA  | TAACAAGGTA  | CCCAGAATAT  | AGAAATATTT | TGCTTAGCAC  | ATAATAACTC  | 3300 |
| ATTTTACATC  | CTTTTAAAGT  | TTATTTTTTAA | ATTATATCAA | AATATTTCTA  | TATTTTTTAT  | 3360 |
| TACTTTACTT  | TATTTTACTA  | AAAGCATACA  | ATTAGGCATT | AAATGAAGAA  | GTTTTTAATA  | 3420 |
| TCCGTTTATT  | TTTTATTGTT  | TTATGGTTGT  | TCAACTATAT | CTTTGGTAAA  | AATACCAGAA  | 3480 |
| AAAGATAAAA  | TAAATTTAAC  | TGTTTTATCA  | TCTTTAATGA | ATTATCCTGA  | TTTGAAGATT  | 3540 |
| TCAAATTTTA  | AAATAAAAGA  | CTACGAACAT  | TTGCATTATT | CATCTGATTT  | TGAAAGCTTG  | 3600 |

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| AGTGATACTA AAAATAGTGC TTATATTTAC GTTGATGAAT CTAGTTTCAA TAATAATATT  | 3660 |
| AATTTTATTA AAGATCTTTT TATTTATAAT AAGAAATTAT ATAGAATACT TATTGCTTAT  | 3720 |
| AGCTTGACCC AAGGTGCATC TTTTAAGGCA GAAGTTTAT CTTATCTTGA AAAACAAAAA   | 3780 |
| ATTATGAAAA ATTTTTCATT GAAAAATAAT TTTCCAACTG CTAAAAAATT TATGGATAAT  | 3840 |
| AAGTATTGGA TTGTAATTGC AAAAAACCAT TTAGATTCTC TTGTTAAGAG TAAAAATTAT  | 3900 |
| TTAGTCTTGG CGAATGTAAA GATGGAATAT ATACTCAAAA AGTTTTTAAAC TTGAGAAAGC | 3960 |
| TTTTTACTCT AGATCTTCAA ATATTTTTTT AATTCGTCTT TTTTTTCAA GTTCATATTT   | 4020 |
| TTCCAAATCA AGAGCTATTG ATTCTTTAAT TTTATCTGTA TTGTGGAGGT AGATGTTGGC  | 4080 |
| TTCTATTTTT TCTTTTGTGT TTTAATTTT TAAAAATTTT TTAATCTTTT TTATTTTATC   | 4140 |
| TATTTTGACA AGATCATTAA TTATGCTTAA TTTTAAATAA ATTATATTTT CAGTTACTTG  | 4200 |
| GAATTCCTTT GCTATTGTTT TTTGGGGATA CTCTTTAGAT TTATATTGAG ATAATTTTAA  | 4260 |
| TTTTAATGTG GTTGTGGGA TCAATATGTT TGCTGCAAAT ATGTTAGCTT CTGTTACCAT   | 4320 |
| TTGACTATCT TGAATGTTGT TATAATAGTT TTCATTTTTA GATAGATTTT TTATTTGATC  | 4380 |
| TTGATGCATC AAATAATGCC CCAAGTATTT TGCTATTGTA AATCTTTTAT TTTCAAGGCT  | 4440 |
| CATGTTTTCA TTTATATATA AAGATTTTTT ATTTAATTGA ATATATCCTG GAAAATCTTT  | 4500 |
| ATTCTTATCT TGAAAACCTA TTTCGAAAT TTTAAGATCT TCTCCCATGG CAATTTTTTAC  | 4560 |
| TATAGGAACA GGAATAAGTA ATATTTTATG TTTTGATGTT ATATAATCCG AATAGGCTTT  | 4620 |
| AGAATTTTCA ATACAAGAGC TGAATTTGTT TTCATTCATT TAATATAAAT ACTCTCCTTT  | 4680 |
| CTGTATTGTA TAATATAAGT TAATTATGAA ATACTGTTTT TCTTTGATTT TAATGGTTTT  | 4740 |
| TATTTGCTCT TCTTGCAAGA TTTTAAATAT TGCTGAAGAT TTAGAAAAGA ATTTTGAAAA  | 4800 |
| AATTGAAAGA GCAGATTATT TTCTTTATTT TTATCCAGAC AGTCAAATAT ACATTAAAAA  | 4860 |
| AGATAAATCG AGCAATAAAT TTAGTGTTTT TTTAAATGTT ATGTTAGATT CAAATTTAAA  | 4920 |
| TTTTACTAAA GGTCATTTAA AATTAATTCA AGACAATAAA TATATTGGAA GCATTGCTAT  | 4980 |
| TTCTAAGGTA GTTAGTATTG GAAATTTTAA GTTTTTGTAC ATTAATCTTG ATAAAGATAA  | 5040 |
| TTTTACTCTT ATGTCAAAAAG CTTTAACCCC TTACAAAAG CTAGTCTTTT TATTTAATGA  | 5100 |
| GGATTCTTTT CAGGTTTGGA CTAAGGATAC CTTGCAATAT GATCCAAGAT TTATTGATGT  | 5160 |
| TAATTTCAAG AATACAAAAA ATACTTTAGA ATATGCATTT AAAACAAAA TTTTATAAAA   | 5220 |
| AACTTACAT ATTATGGACT TTCTTGAAAA TTTTAAAAA ATATTTATTA CTTTTTTATT    | 5280 |
| TGCTATTTTT AACATTGTCT TGTTCTACAA TCTATTTTGA TGGCATTCCC GAATTAAAAA  | 5340 |

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|-------------|------------|-------------|-------------|-------------|------------|------|
| AAGATTCCAA  | ATATATTAAA | TTAATTCAAG  | AGAATAATAA  | AATTTCTTTA  | AGACATTATT | 5400 |
| TTACTGTTTC  | TAATGCTTGG | AACTTAAGGT  | ACAAAGAACC  | TTTATTTTTA  | AAAGTTGGAA | 5460 |
| ATGATATAAT  | TGCCTTATTT | CTATTTAATC  | GGCATAAGCT  | AATTGATAAT  | AAATATCTTC | 5520 |
| AAACCTTTTT  | TAGCGTTGGA | AGAGACATTT  | CTTTAAAAGC  | TTATTTAAAG  | CTTATTAAAG | 5580 |
| CGAGAAAATT  | TGTTATTACA | AATAGTTCTG  | AAAAGATTAT  | TAAAACCATT  | GTATTTTCAA | 5640 |
| ACTTACCTGA  | CAGCGAAGAT | ATTCTTTTCC  | AGAACAATAT  | GCTTAATAAG  | GCACAATAGG | 5700 |
| CCTTTAAAAA  | GAATTAAAAG | CCTAATAATT  | ATTATTGAAA  | ATATTTTTAA  | ACAATAAAAA | 5760 |
| GGAAAGTTTT  | ATGGGTAAGT | ATGTAAAAGG  | TTTATTTTTT  | CAATTTAAAA  | ACAGTGATAT | 5820 |
| TAACTATAAA  | AAGGAAATTC | TTGCGGGCAT  | TACTACTTTT  | TTGAGTATGT  | CATATATTAT | 5880 |
| AGCTGTTAAC  | CCAGCAATAC | TGTCTAACAC  | AGGCATGCCA  | ATTGGTGCAC  | TAGTTACCGC | 5940 |
| AACCTGTCTA  | ACAGCAGCAT | TTTCTACTAT  | ACTAATGGGA  | CTTTATACCA  | ATACGCCTTT | 6000 |
| AGCATTGGCT  | TCTGGAATGA | GCTTGAATGC  | GTTTTTTGCA  | TTTTCTGTAG  | TAATTGGGAT | 6060 |
| GAATATACCT  | TGGCAAGTTG | CATTAGCTGC  | TGTTTTTTATT | GAAGGACTAA  | TTTTCATTCT | 6120 |
| CTTATCTTTT  | TTAAGAGTAA | GGGAGCAAAT  | TATAAACTCT  | ATTCCGATAA  | ATTTAAAATA | 6180 |
| TTCTATTTTCG | GTTGGAATAG | GGCTTTTTTAT | TGCTTTTTATT | GGCTTTGTCA  | GCGGGGGAAT | 6240 |
| TATCATTTAAA | AATGATGCTA | CATTGGTTGG  | AATCGGATCA  | TTTGTTGACT  | TGAAAGTTTT | 6300 |
| ATTTACATTT  | TTAGGATTAT | TTTTTATTGT  | AATTTTTGAA  | CAATTAAATG  | TAAGGGGAAG | 6360 |
| TATACTTTGG  | GCAATTTGCT | CAGTCACTGC  | CATAGCTTGG  | ATATATGCAA  | TCTTTAATTT | 6420 |
| AGAAGGTGCC  | CAGGCTATTG | GAATACAAC   | TCCCAGCAGG  | ATTTTAAAAAT | TTGAATCCAT | 6480 |
| TGGACCAATA  | TTTAATCAAT | TAGATTTTTTC | TTATGTTTTA  | AATGAGCATT  | TTTGGACTTT | 6540 |
| TATATCAATA  | GTTTTTATTC | TCTTGTTCAA  | TGATTTATTT  | GATACTGTGG  | GTATTTTAAT | 6600 |
| AAGCGTTACA  | ACAAAAGGTG | GCATGTTGGA  | TAAAAATGGA  | AAAATTCCTA  | ATGCAAAAAA | 6660 |
| AATATTACTG  | GTAGACGGCA | TTGCTACTAC  | TTTTGGAGCA  | ATAATGGGTG  | TTTCCACTGT | 6720 |
| TACTACTTAT  | ATTGAAAGTT | TTACAGGAAT  | TGCTGAGGGT  | GGAAAAACGG  | GCCTTACTTC | 6780 |
| AATTGTAAC   | GGAACATTAT | TTCTATTTGC  | AGTTTTTTTT  | GCCCCATTGT  | TTATTGCCGT | 6840 |
| TCCTGCTAGC  | GCAACTGCTG | CAGCATTAAT  | ATATGTAGGA  | TTTCAATGT   | GTAGAGAAAT | 6900 |
| AATTAAAATT  | GATTTCTTTA | ATATTAGAGA  | AAATATTTC   | AGCTTTTTTAA | TATTTTTTTT | 6960 |
| GATTCCTTTA  | GCTTATAGCA | TTTCTTCAGG  | ATTTTTTGTT  | GGCGCAGCAT  | TTTATATTTT | 7020 |
| AGTAAATGTA  | TCATTTAATT | TTTTTAGCAA  | AGAAAAGATT  | AAAATTTCTC  | CTGTACTGCT | 7080 |
| AATATTATGC  | TTAATTTTTA | TTATTAAATT  | TATTTATGGC  | TATTAATATT  | TCTATAAAAT | 7140 |



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|------------|------------|------------|------------|-------------|------------|------|
| TTGATTTATC | AATATATTTT | ATTATTAGAT | TAAAATCCAA | TAAATAGCGT  | TGGTTTTATT | 7200 |
| TTTGATATAA | AATAAAATTT | GAGGAGTAAT | TTGTAATGAA | TCAATCCAAA  | GAAACATTGT | 7260 |
| TATTTCAATT | TAAAAATAAA | ACCATTGATT | ATAAAAAAGA | AATTATCGGT  | GGTATTACCA | 7320 |
| CTTTTTTAAG | CATGGCATA  | ATAATAGCTG | TTAATCCGGC | AATATTATCT  | AGCACAGGTA | 7380 |
| TGCCAATTGG | CGCATTAGTT | ACTGCAACTT | GCTTAACATC | AGCATTCTTCT | AGTATATTAA | 7440 |
| TGGGGCTTTA | TACTAATACC | CCTATATCAC | TAGCACCAGG | TATGGGTCTT  | AATGCATTTT | 7500 |
| TTGCATTTTC | TGTAGTAATT | GGAATGAATA | TTCTTGGCA  | AGTTGCACTA  | GCTGCTGTTT | 7560 |
| TTATCGAGGG | GCTAATCTTT | ATTGTGCTAT | CTTTATCAAG | AGCTAGGGAA  | AGTATTGCAA | 7620 |
| ATTCCATACC | GGTAAATTTA | AAATACTCTA | TTACGGTTGG | AATAGGGCTT  | TTTATTGCCT | 7680 |
| TTATTGGCTT | TGTCAATGGG | GGAATTATTG | TTAAAAATGA | TGCTACATTG  | GTTGGAATTG | 7740 |
| GATCATTCAT | TGACTTGAAA | GTTTTATTTA | CATTTTTAGG | ATTATTTTTT  | ATTGTAATTT | 7800 |
| TTGAACAATT | AAATATAAGG | GGAAGTATAC | TTTGGGCAAT | TTGCTCAGTC  | ACTGCCATAG | 7860 |
| CTTGATATA  | TGCAATCTTT | AGTCCAGAAA | GCGCAGTAGC | TGCTGGAATA  | CGTTTTCCAG | 7920 |
| ATGGAATTTT | AAGATTCGAA | TCTATTGGGC | CAATATTTAA | CCAGTTAGAT  | TTTTCTTACA | 7980 |
| TATTAAGCAA | ACATTTTTTG | AGCTTTATTA | CAATTGTATT | GGTATTGCTG  | TTTAACGATT | 8040 |
| TATTTGATAC | TTTGGGCACT | TTAATAGCAG | TGGCAGCAAA | AGGAAATATG  | TTAGACAAAA | 8100 |
| ATGGAAAAAT | TCCTAATGTC | GGCAAAATAT | TTTTAATTGA | TGCCATTTCT  | ACTACTGTTG | 8160 |
| GAGCAATAAT | GGGAGTTTCA | ACCGTAACCG | CATACATTGA | AAGTTGCACA  | GGAATAGAAG | 8220 |
| AAGGTGGTAA | AACCGGACTT | ACAACAATAG | TAACGGGAAT | AATGTTCTTT  | ATTGCAATAT | 8280 |
| TCCTTTCACC | ATTATTTATT | GCAGTTCCTG | CTAGTGCAAC | TGCTGCAGCA  | CTAATATATG | 8340 |
| TAGGATTTTC | AATGTGCAGA | GAAATATTGA | AAATTAATTT | CTCTAATATA  | AGAGAAAATA | 8400 |
| TTCCCAGTTT | TTTAATACTT | TTTCTAATCC | CCTTAACATA | CAATATCTCT  | TCGGGGATAA | 8460 |
| GTATTGGAAT | AATATTTTAT | GTTTTAATAA | ACATAATACT | TAATTTATTG  | GAAAATAAAA | 8520 |
| AAAATAAAAT | CTCTCCAGTA | ATGATAATAC | TGTGCCTAGT | TTTTATTATT  | AAATTTATTT | 8580 |
| ATATTTATTA | ACCGATTTGT | TATTTATAAA | AAAAATTTAA | AATTTGCAAT  | TTCAAAAACC | 8640 |
| TAAATTATAA | ATCATAAAAA | AGAGTCTTTA | TTTTTTAAAT | AGTTAAGTCT  | ATTTAACAAC | 8700 |
| TTTTTAAAT  | CTCACATAAA | ACCAAAGAAA | CTACTATTAT | CTTTAAAAAT  | TTGCCAAAAC | 8760 |
| CGTTTAAGCC | TACTTAAAGT | CTTTAAAATC | AAATTTCTAG | CACCCAATTT  | TGTTTATATT | 8820 |
| TAAATGCTTA | AATTCAATTT | ATTAACGGCT | TTTGTAATAA | GTTTTTATTC  | TTTAAGAGAA | 8880 |

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| GAGCTTAAAG TTAAAATGAA TTTTAAGAAA TTTTGTGAGA AAATAAAAAA ATAAAAGCCA | 8940  |
| AGAAATCTTT CTTGACTTAT ATTGACTTTA TTTTCCAGT TACTTTTTTA AAACAAATTA  | 9000  |
| ATCTTATAAT ATTGATCTTA ATTAAGGTTT TTTTGGACTT TCTGCCACAA CAGGGCTTGT | 9060  |
| AAGCTCTTTA ACTGAATTAG CAAGCATCTC TTTAGCTGCT TTTGACAAGA CCTCTACTGA | 9120  |
| TTCAAATAAT TTTCCAAGTT CTTCAGCACC TTTAGTTTTA GTACCATTTG TTTTTAAAT  | 9180  |
| GGCTTCTTTT GCATCAGCAT CAGTAACACC TTCTTTACCA AGATCTGTGT GTTTTTCTTT | 9240  |
| TAATTTATTA GTAAATGTTT CAGAACATTT CTTAGCCGCA TCAATTTTTT CCTTTAATCC | 9300  |
| TTCAATTTTC AATCCATCTA ATTTTTGTTT TATTAGGGTT GATATTGCAT AAGCTCCCGC | 9360  |
| TAACAATGAT CCATTGTGAT TATTTTCGGT ATCCAAACCA TTATTTTGGT GTATTTTTTT | 9420  |
| ACCAATAGCT TTAGCAGCAA TTTCATCTAT AGATGACAGC AACGCTTCAA CCTCTTTCAC | 9480  |
| AGCAAGTAAA ACCGCATTAG AATCCGTAAT TTTTTACTT ATTTCTGTAA GATTAGGCCC  | 9540  |
| TTTAACAGAC TCATCAGCAG AATTGCAGA TGTATTCCCA TCTTCCCTG AATTATTACA   | 9600  |
| AGATATAAAT AAAAATAAAG TCATTAATAT TGCACCTAAT GTATTCTTTT TCATTAATTT | 9660  |
| GTGCCTCCTT TTTATTTATG AATTATTAGT CCAACAATTT TGTTTTTCAA TTTTTTATTT | 9720  |
| GAAAAATAA TTTTTTCAA TTCTTCAATA TCTTGAATAA ATATTGAAGA ATTTGAAAAA   | 9780  |
| TATTGTCTTA ATTTGATTTT AAAATCGACA TAAGCAAAGC CAAATATGCT AAAATTAAAT | 9840  |
| GAAGTATACT TTAATAAAAA AAGTTTTAAT TTATTTAAGG ACTTATATAA TGAATACTCA | 9900  |
| GGCAATACTT GTATTAGATT TTGGATCCCA ATATAGCCAA CTAATTGCAA GAAGAATTAG | 9960  |
| AGAAATTGGC GTTTATACAA AAGTAATACC TTACTATACT CCTTTAAAAG AAATTAAAAA | 10020 |
| TATGAATATC TCAGGAATAA TACTAAGTGG AAGTCCTGCT TCTGTTTATT CAAAAGAAGC | 10080 |
| TCCTACCTTG AATATGGAAA TTTTAAATTT GAAAATACCT ATTTGGGTA TATGTTATGG  | 10140 |
| AATGCAAATA ATGTTTAAAT TATTTGGGGG CCTAGTATCT AAAGACTCTA AGCAAGAATA | 10200 |
| TGGGAGCTCT GAAATCTTTC TAAGAGATGA AAAATCTCTT TTATTTTCAG AACTTCCAAA | 10260 |
| CAAATTTCAA ATTATCATGA GTCATGGAGA CAGTATTGAA AAAATTCCTG ATAATTTCAA | 10320 |
| ACAATTAGCT TTTACAAAAA ATTGTATTGC TTCTATATCA AATGAACTC AAAAAATTTA  | 10380 |
| CGGCCTACAA TTCCATCCAG AAGTAACTCA TTCTGAATTT GGTGATCAAA TAATTAAAAA | 10440 |
| TTTTGTTTTT AAAATTTGCC AAGCCCAAAT TAATTGGTCA TTAGAAGGCA ATCTAGAAAC | 10500 |
| CATTGTGAAA AAAATTAAGC TTAAAGTGGG AAGCAAAAAG GTTATTTTAG GACTTTCTGG | 10560 |
| TGGCACAGAC TCTTTAGTTT GCGCATTGCT TATAAAAAA GCTATAAACG AAAATTTGAT  | 10620 |
| CTGCGTTTTT GTAAACACTG GATTGTTGCG CAAAAATGAA GATAAAAAA TACTAGAATT  | 10680 |

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| AAAGCATCAA TATGATTTAA ATATAAAATA TATTGATGCT TCTACAAAAT TCTTGAACCG  | 10740 |
| TTTAAAAAAT ATAAGTGATC CTGAGGAAAA GAGAAAAATA ATAGGAAAAG AATTTGTAGA  | 10800 |
| TGTTTTTTGAA AAAATTACTC TAGAAGATCA AAATATAGAA TATTTAGCTC AAGGAACAAT | 10860 |
| TTATTCTGAC GTAATTGAAT CTAAATCAAA AGACAGCTCT TCTTCAAAAA TCAAGTCTCA  | 10920 |
| TCACAACGTA GGGGGACTCC CAGATAAGAT GAGTTTAAAA CTCTTAGAAC CTTTGAATGA  | 10980 |
| ATTTTTTTAAA GATGAAATAA TTCAAATCGG AATAAATCTA GGTATTAAAA AAGAATCTCT | 11040 |
| TTACAGACAT CCATTTCCCG GCCCAGGACT AGCTATAAGA ATAATTGGAG AAGTAACACA  | 11100 |
| AGAAAAGATA AATATCTTAC AAGAAGCAGA CAATATTCTA ACAGAGGAGC TTTTATAAAA  | 11160 |
| TGATTTATAT TATCAAATAA GACAAGCATT TGTGTATTG CTTCTGTCA AATCTGTAGG    | 11220 |
| CGTAATGGGA GATCAAAGGA CATA CGAATA TACAGCTGTA ATTAGATGTG TAAATACCCA | 11280 |
| AGACTTCATG ACTGCAGAAAT GGACTGAACT TCCTTACAGT TTTTAAAAA AAGTTTCTTC  | 11340 |
| AAGAATAATT AATGAAGTTC GGGGTATAAA TAGAGTTTGT TATGATATAT CTTCTAAGCC  | 11400 |
| TCCATCAACC ATAGAATGGG AATAATAAGA ACAATAAAAA GGAAAATTTA TGCCAAATAA  | 11460 |
| GATAACAAAA GAAGCTTTAA CTTTTGATGA TGTGTCTTTA ATTCCAAGAA AATCATCTGT  | 11520 |
| ATTACCTAGT GAGGTTAGTT TAAAAACACA ATTAACAAAA AACATATCCC TAAACATACC  | 11580 |
| ATTTTTTAAGC TCAGCAATGG ATACTGTTAC AGAAAGCCAA ATGGCAATAG CCATTGCTAA | 11640 |
| AGAGGGTGGA ATAGGAATTA TACATAAAAA TATGTCAATA GAAGCTCAAA GAAAAGAGAT  | 11700 |
| AGAAAAAGTA AAAACATATA AATTCCAAAA GACTATTAAC ACTAATGGAG ATACAAATGA  | 11760 |
| GCAAAAACCC GAAATATTTA CAGCAAAACA ACATCTAGAA AAATCCGATG CATACAAAAA  | 11820 |
| TGCAGAACAC AAAGAAGATT TTCCTAATGC ATGCAAAGAT TTAAATAACA AGCTAAGAGT  | 11880 |
| AGGTGCTGCT GTTTCATTG ATATTGATAC CATAGAACGA GTTGAAGAGC TTGTAAAAGC   | 11940 |
| ACATGTAGAT ATACTTGTC TAGACTCTGC CCATGGACAT TCTACAAGAA TAATAGAGCT   | 12000 |
| TATCAAAAAA ATTAAAACCA AGTACCCAAA CTTAGACCTT ATTGCTGGCA ACATAGTAAC  | 12060 |
| TAAAGAAGCT GCATTAGATT TAATAAGTGT AGGAGCAGAT TGTTTAAAAG TAGGAATAGG  | 12120 |
| TCCGGGTAGT ATATGCACAA CAAGAATCGT TGCGGGAGTT GGAGTTCCCC AAATAACAGC  | 12180 |
| AATCTGCGAT GTCTATGAGG CTTGTAATAA TACAAATATT TGTATTATAG CAGATGGCGG  | 12240 |
| AATTAGGTTT TCAGGAGATG TGGTTAAAGC CATCGCAGCA GGAGCTGATA GCGTAATGAT  | 12300 |
| AGGCAATCTC TTTGCAGGCA CAAAAGAATC TCCTTCTGAA GAAATAATTT ACAATGGAAA  | 12360 |
| AAAATTCAAA TCTTACGTTG GAATGGGCTC TATTTCTGCT ATGAAAAGAG GCTCCAAATC  | 12420 |

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|------------|------------|------------|------------|------------|------------|-------|
| AAGATATTTT | CAACTAGAAA | ACAACGAACC | TAAAAAATTA | GTCCCCGAAG | GAATTGAAGG | 12480 |
| CATGGTACCG | TATTCTGGAA | AATTAAAAGA | TATTTTGACT | CAATTAAAAG | GCGGTTTAAT | 12540 |
| GTCTGGAATG | GGCTATTTAG | GAGCAGCAAC | AATATCTGAT | TTAAAAATAA | ATTCTAAGTT | 12600 |
| TGTAAAAATA | AGCCATTCTT | CATTAAAAGA | ATCCCATCCT | CACGATGTTT | TTAGCATAAC | 12660 |
| ATAAAAAATA | AAAACATTTA | TCAAATTAAA | TAACTAACAT | CTTTAAAAGA | TCAAAATATT | 12720 |
| GCATCCTTCT | TTTAAAGAAA | TAACAACCTT | GGTAGGAAAA | GAATAATAAA | TATAGCTTTC | 12780 |
| TGTTTTTGTA | ATGCTTTTTT | TAGTATTAAT | ATATTAATGC | TTACTCTATT | TAAAAATAAT | 12840 |
| AATTCTAAAA | TAATTAAGTT | AAAGAAATGA | ATTCTTAATT | TAAGAATTCA | TTTCTTATTT | 12900 |
| TTGTTTATAG | CCAAATCAAA | AGATCTAGCT | ATAAACCATT | TTACTTAAA  | TCATTTAATT | 12960 |
| GGTTTTATTT | CAGATAAATT | AAATCTTTCC | GAAATATTTG | GCTCCCAACC | TTTCCACTTG | 13020 |
| TCGTTTCTAA | AAAGATAACT | AGAAGAAGTT | ATATTAAGAA | ATACAGCCGG | AAAATCTCTT | 13080 |
| TCAATTATTA | TTGCTTCTGC | TTTTTTTAGA | ATTTCTGTGC | TTTTAAAAAT | ATCTCTCTCA | 13140 |
| TTATCTGATT | TTATTAAAAG | TTCATCATAT | TCAGAATTTG | AATATCCATA | AGATGAAAAA | 13200 |
| GATGTATTTT | CAGTTTGAAA | GATGCTTAAG | AACGTCATAG | GATCAGCATA | ATCTCCTGAC | 13260 |
| CATCCTGATC | TTATTATTTT | ATAATTACCA | TTTACTCTAC | TATTTATATA | TGTTGACCAT | 13320 |
| TCTTCATTCT | CAAGCTGTAC | ATTAATATTT | AAGTTTTTCT | TCCACTGATT | TTGAATAAAT | 13380 |
| TCAGCAATTT | TTCTCTGGCT | ATCACTTGTA | TTGTACTTTA | CTTTTAATAA | AGGAAAATTA | 13440 |
| TTACCATTGG | GATATCCTGC | ATCTGCCAAA | AGCTTCTTTG | CCATTTCAGC | ATCAAATAAG | 13500 |
| CTCAAATTGC | TTTTATAAGA | GTAATCAATA | TAATCTGGAG | TTGCTCTTCT | TGTAGGAATA | 13560 |
| GAACATCAT  | TAAGAACGCT | CTCTGTAAAG | GTTTTTCTAT | CAATAGCAAA | AGACAGCGCC | 13620 |
| TTTCTAACTT | TAACATTGTC | AAGCGGTTTT | ACTTTCATGT | TCAAAGAATA | AAAAGAGGTT | 13680 |
| GAATTAATAC | CCATTGAATA | ATAATCGTCC | CTAAGCTTAA | GATCCTTAAG | CAAATCTGGT | 13740 |
| GGAACATTCT | TAAAAATTGC | ATCCAGCTCA | TCATTTAAAT | ACATATTATA | AGCTGTAATG | 13800 |
| CTATTATCTG | TGACAAAAAA | TATAATACTG | TCAAGAACAA | CATCTTTGGA | ATTATAATAT | 13860 |
| TTATTATTCT | TTTCAAGAAC | AACCTTTTCA | TTTAAACTC  | TAGATTTTAA | TTTGAAAGGA | 13920 |
| CCACTAACAA | CCATATTCTC | GGGGTCTGTC | CACCTTTGCC | CATACTTTTC | AATAACGTGC | 13980 |
| ATTGGTACAG | GAATAAATGT | TTGATGTACT | AACATATCAA | GAAAATATGG | CTTTGGAGAT | 14040 |
| TTTAGCGTTA | TTTCTAAAGT | TTTTTCATCA | AGAGCTTTAA | TTCCAAGCTC | AGACTCATTT | 14100 |
| GCTTTGCCGT | CAAAATACTC | TTCTGCATTT | TTAATAACGG | ACTTAATCAT | GTTAACAAAA | 14160 |
| GATGAGCCGG | TTTCTTTATC | TAAAATTCTA | AGATAAGATT | TTCTTATTCT | TCGGCAGTAA | 14220 |

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|------------|------------|-------------|------------|------------|------------|-------|
| TGGAAACTCC | ATCACTCCAA | ACAAGATTAT  | CTCTTAAATG | AAACGTATAA | ACTACTCCGT | 14280 |
| CATCAGAAAT | ATCCCAACTT | TTAGCAAGTC  | CCGGTCTGTA | TCCTCCAGTC | CTGGGATCTC | 14340 |
| CATCTAAAT  | GCCAAGAAAC | ATTTGGCTTA  | CAATCCCTGA | TCCAACCGTA | TCGTTTATTA | 14400 |
| ATTGAGCATC | TAAAGTAGCA | GGCTCACTTC  | CAATATTTAG | CTTAAAAACC | AATTTGTTTC | 14460 |
| TATTACTTTC | ATTAACACAA | GAAATAAGTA  | AAATTAAATT | GAGAAATAAT | ACAACTTTTA | 14520 |
| ACTTTTTTAT | CAATATTTTC | ATACAAGCAT  | CCTTACAAGT | TTTTATAAAT | TTAAATTTTG | 14580 |
| CCTATATTTT | ATTATATATG | AAATATAATT  | TCACATTAAC | GTTATTAAAA | GCACTTAAAT | 14640 |
| TATTCTAAAA | TAAAATTAGC | ATTTTACATT  | AAATAAGCAA | AATAATTGAT | CTTATATTGA | 14700 |
| AAAGATTATA | ATCTTTTATT | GCTTGCTCTC  | CAATGGTTAT | TATACATATA | AAAAATAATT | 14760 |
| TTAAATTTAA | TTATTTATCT | ATTTGTAAAT  | TAGATTTATT | TAGATTTATT | ATTTTTTAAT | 14820 |
| AAAAAATAA  | ATTAATATTG | AATTTTAAAA  | AATTAGAATT | AAATTCTAAA | CTAAATTTCA | 14880 |
| TATTTAACAC | TTCCTTTGTG | GCAATAAAAAG | TTCTATACAA | GAACTTTCTT | GCTTTTAAAA | 14940 |
| CACCTTTTAA | AGAGTTTAAA | AACTTTCTTA  | TATATTTCTA | ACAAAAGCAA | TGCTAAACAA | 15000 |
| AAGTAGCAAC | CAAAAATCCC | TAAAATAATG  | ATTTAAAGAA | ATAAAAAATT | AATTTATCAA | 15060 |
| AAATTGTTTG | CAATGATCTA | ATAAAAAATA  | TATTATTATG | TTCACTAGTT | TATAATTTTT | 15120 |
| TTATCAAAGG | AGAGGAATAT | GATATTATAT  | CAAATCAAT  | TAAAATTTTT | AAAATTGTTG | 15180 |
| GTATTTTTTT | TATTAATATC | TTGCACTTCC  | TTAAACGTTG | AGCACGATCA | ATTTGGAAAA | 15240 |
| ACATTTAGAA | TATACCAAAG | CTTAAATAAA  | AATGCAGAAC | TTAAGGGTAT | TTTTAATTAT | 15300 |
| AAAACAGGAA | TAATAAAAT  | AGTATTATAC  | ACAAGGTTTA | GAAACCATAG | TATAACAGAA | 15360 |
| CAGAATCCTT | TATTGCTGCT | GGATGGAAC   | AAAATTGAGG | GAAAAGTAAG | CTACAAAAGA | 15420 |
| GATAATAACC | ATTTTTTTTG | CAACTGGATT  | AATTATTCAT | CATTTGTTTT | GACCAAATCT | 15480 |
| TTATTGAAA  | GGATGATTAA | AGAAGAAGAT  | GCTTCTTATA | AGAATAAGGA | GGTTAAAATT | 15540 |
| AGAATTGGAT | TAGAAGATTT | AAGCTTGAAA  | AAATATAAAA | TTTTGGACTT | TCTAGTAATG | 15600 |
| GTTGAATCGA | TTGAAAATAA | AGATTATAAA  | AGTTAATTTT | TTAATTTATT | GGTATTTATT | 15660 |
| TTCAAGTTAA | AATAAATTTT | TATTGCAAAA  | TAGAATTGAT | ATAGAGGCTA | TATTATTCCT | 15720 |
| ATTTTAATTC | TTTGCAAAAA | TGACAAAGGC  | TACCTTGTGG | TAGCCAACCT | ATTATTCTAA | 15780 |
| TCAAACAACA | AGAGCGAGAC | ATTGCATCTC  | AATCTATATA | GATTATTATA | TAGTATTTTA | 15840 |
| TTTTTTTGTA | AAGTGTTTTT | GAAACATTTT  | TTAAATATAG | TACTATTTTA | TAAATATAGA | 15900 |
| ATATTATTTT | TTATTTTCA  | AATTGTCATA  | TTTATTTTAA | ATATTATATA | GTAGTTTTTG | 15960 |

|            |             |            |            |            |            |       |
|------------|-------------|------------|------------|------------|------------|-------|
| ATTATCATAA | TATAGCTCTT  | TTAATAAGAA | GCTTACAAAG | TTTGTATTTG | ATTTATAAAA | 16020 |
| ATTAAGGCTT | TTTTCGTCTT  | CAATTTTTAG | CCTAAGTGAT | CTATTTAATA | TCCTTTTTGA | 16080 |
| ATTAACATA  | GTCTCATTAT  | TTTCTAAAAA | TTGCATAGCA | TAATATATTC | CTTTTTTTAA | 16140 |
| AATTAATTCA | TAATTGATTT  | TACCACTGTC | AATTCCTATT | GCTAGTTTAA | TATATCTATA | 16200 |
| AACAGTAGTT | TTTGCCATAT  | TATAATCTTT | TATAAAATGA | CCAAAGCTTT | TATATTTGTC | 16260 |
| TATAACATAG | TACTTATTAT  | CATTAATTTT | TTTTAGAATT | CTAGCTGTTT | CAATTTTATT | 16320 |
| GTAAGATTCC | TCTTTTATCA  | AAATTTTTAG | TTTTTCTTTC | AATTTTAAAT | ATCTAGATTC | 16380 |
| TCTGCTTTTT | TTTATTTTCAT | TTCCACTAAG | CTCAATTCTT | TTGACAATTT | CTATTTTTTT | 16440 |
| ATTTAATTTT | ATCTTTTATT  | TTTACTCCAT | TGCATAATTT | CAAATTAGTT | CCATATGGAA | 16500 |
| CTTTTAGTTC | CATATGGAAC  | TAATTTGAAA | TTATGCTTAA | AAAATTTTCA | AGTATATTTT | 16560 |
| CATAAGCTTT | ATAATAATCT  | TCATTAGAAT | TGAATTCTTC | TCTGTAAAAA | ATGGTTTTAC | 16620 |
| GTAAATTATC | TCTTTTTTGA  | ACACTTCCTA | AAAATTTGCC | TTTATATTCG | CATTCAATAA | 16680 |
| ACTTTTTAAG | TTCTTTTATCA | ATATTTTGTC | TTTCAATAAA | TTTGGTTATT | AAATAAAATA | 16740 |
| TTGGCAAATC | CTTTCTAAAA  | AGATCATCAA | GCCTGTTAAT | TATTAGGTCT | AAACTTTCAA | 16800 |
| TTGCCCATTG | GTCTGTTGGC  | AAAGGTATGA | TTAAGTAATC | TGAGATGATT | AACTATTAT  | 16860 |
| TGAGCAAGCT | TCCTAATGTG  | GGTGCAGTAT | CCATTATAAT | AAAGTCGTAT | CTGTTTTGAA | 16920 |
| TAAAACTTAA | GAAAATTTTG  | AGTAAATTTT | CTTTCAATGA | AATACTTTCT | TCATTAAATC | 16980 |
| TACTCAGGTT | TATGTGGCTT  | GCTATGAAAT | CTGTATTATT | ATCTATTTTG | ATTGTTGAAT | 17040 |
| TTTCTATGTC | TATTTCTTTT  | TTAAGAACTT | TATATATATT | GATATCTTTT | GGACTAAGGT | 17100 |
| TTTTTTTTCT | TAATATATTA  | ATATAAAAAC | TTGTACTACT | TGCTTGTTGA | TCTAAATCTA | 17160 |
| TTAATAATAT | TTTATTATTT  | TTTTTTGAGA | GTATGTTTGT | AAACATTAAT | GATGTTGTAC | 17220 |
| TTTTTCCCAC | CCCCCTTTT   | ATTGATGCAA | TTGTTATTAT | TTTTGTGTTT | TTTTTATCCA | 17280 |
| ATTTACTATC | CCTTTATTAC  | TTTCATATTT | TTTACCATAA | AATTTATGTA | TTTCTTCTTC | 17340 |
| AATTTTTAGA | GTTCTTTCTA  | AAAGAGATTT | ATAAAAAAGT | TTATTTTTAT | TTTTTATCTT | 17400 |
| GGTGAATATG | TATAAGCTTC  | TTAAATAACA | AAAAACGCTT | CCTTTTTTAA | ATTTGAATTC | 17460 |
| CATATAAAAT | ATTTTTTTTA  | ATCTTATTGT | TTTTTTTGTT | CCTTTTTCTG | AATAATTTAT | 17520 |
| AACAAATGGT | CTTGGTAGGT  | TTTTAAAACC | ATAAAAAATT | CCTAAAAATT | TATCGTTTTT | 17580 |
| TTTTACTGAA | AATAAATGAA  | AACTTTCGTA | TTTTTTATTA | TTAAATATAT | TTCTCAGACA | 17640 |
| TAGCCAAAAT | TTTCCTTTTT  | TGGGTTTTGC | TTCAAAATTA | TTTATCATGC | TAAAGATTTT | 17700 |
| TGTGTGATAA | ATAATTTTGT  | TTTCTAATTT | TTCAATTTTG | TTGAAAAAAT | TTTTTTTTGT | 17760 |

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|------------|------------|------------|------------|------------|------------|-------|
| TTCTTTATTT | TTCATTATAT | TATTTTGTCT | TTACTTTTAA | ATTTTTTTGT | CATATTTTGT | 17820 |
| TTTTTTTATT | AGAGTCTTCA | TTAATACAAT | AGCATTTTTT | ATGTTATTTG | ATGTATGTAT | 17880 |
| TTGGTTCTCG | TTTTCATAAT | TTTTTCTCT  | TTCCATTTTG | TTTTTAATTT | TAAATTTTTT | 17940 |
| TATTAGTTTA | TCAAAGCTG  | TATTTTTGAA | TTTTTTTGCC | ATAAACCATA | TTTTTTGTTT | 18000 |
| CTTTTTTCT  | AGATTTTTTT | TATAAAATTT | TATAATTTTT | TTTTCTTCAT | ATTCTTTTAA | 18060 |
| TTCTTCCATA | AAATCTTTTA | AGTTCCATAA | TGAATCTTA  | TAAGTTATGT | CGTTTTCTGT | 18120 |
| TATTTTTTTT | ATTCTTCTA  | GATTATTTGA | TTTTGATTTT | TTTTTTATTT | CTTTTTCTAA | 18180 |
| GAAATTTATA | GTTTTTTTTA | TGTTTTGATT | TTTTCTTCTA | AAAGAATATT | TAGAATCTTT | 18240 |
| ATATTTTTTA | CTTATATTAT | TACTTAATAC | ATGTGAAGTT | ATTTGATGTG | AAATTTTGTA | 18300 |
| TTTTTGAGAT | TCTTCTATTA | TTTAAATTTT | TTTTAGTTGC | TTATTTTTTG | ATTTTTCATG | 18360 |
| TTTTGTTTTT | TTGTCAATAA | AATATGCTGT | ACTGATAATT | TTTTTAGCTA | ATTTTTCAAG | 18420 |
| GGCTTTATTT | ATTGTATAGT | AAGTAAAACT | TCCATTGTTT | TTTCCAAGTG | GATTGAAATG | 18480 |
| ACTTTTAATT | AATCCTAAAG | TTTCAAAAAT | TTTTATATCA | TTTTGTATCG | TCCTTTTAGT | 18540 |
| GACCCTTTTG | AATCCTTTTT | TTTCCAATAT | AGAATTTGTC | ATTGCTACAA | CATTGCTTAG | 18600 |
| AGAGTATTTT | TTTTTAGATA | TGAAGTAGTT | GGCGCTTAGT | TTTTGGATGA | CCCAAAATAT | 18660 |
| TTTCAATCTT | CGGTCTACTA | CTTTATTAAA | AGGCATCTTG | TTGGTTTTTA | TTTGATACAT | 18720 |
| TTTAAGCTCC | TATCGTTTGA | TCTTTTATTG | CATTAAGCAC | TAAAATTAAT | AGTAATACAC | 18780 |
| TTATTTAAAA | AAGTAAAGTT | TTGTTGGTGA | ATTTGCATTC | AAATGTGTAA | GAGTCAATAA | 18840 |
| GTAAAAATTT | ATGCCTACTT | GATTGCAAAT | TTTTTATGCA | ATGATCTACT | TCTTTTAAGA | 18900 |
| ATTTTAAAAG | AAGTGGTTTA | TATATTTCAA | ATGTGAATTC | TCCCTTTTCT | CCGTAAGATT | 18960 |
| TTAATTTTAG | AGTAATATCT | TTTTCAATGT | TTTTTGCTAG | CTCTATTATT | TTTTGAGGAC | 19020 |
| TTAATACTAT | ATTTAATGTT | TCTTTTATTG | TTTTTGAATT | CTTTAAGGCT | CTCACAGGAG | 19080 |
| GCTCCATTTT | TAATTTTCTA | TCATTCTCAT | CATAAATAGA | GTTTAGAAAG | CGTAATTTAT | 19140 |
| CAGAGTATAA | GCTTAAATTC | AAAAACAGTA | TATTTAAATT | TTCACAGGGG | TAATAATTTG | 19200 |
| CTATAACAAA | TGTTTCGTAA | GTTTCAGAGG | GAGCGTCTGA | TTTTTCAAAT | AATTTTGGAA | 19260 |
| TTTTCATACT | GTAGATGTAA | TAATCCTCTA | TTTCATTATA | TTCTGTTTTA | AGCTCTGTTT | 19320 |
| TTTCAATTTT | AATTTTCTA  | TTATCAATAC | GTTTTTGCAA | AATATTTTTA | GATATTTTAA | 19380 |
| TTTCTTTATC | AAAATCTGTT | ATATATGCTA | AAATATACTC | CTTATTAAAT | TTTATACTGT | 19440 |
| GCGATACGTT | CCAATTGTCC | TTAAAGTCAA | TGTTAATGTA | TTTCCCTGTG | CTTTTATCGT | 19500 |

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|---|-------|
| AAATGTAGGT TAATAGATCT CTTGAATTAG TTAGTGAAAT ACTGATAATG CTTTTATTAA   | 19560 |
| AGCTAGATTT TACTTTGAGT TCTGCTTTAT ATTTTGAATA ATTAATTTTT TCTTCATTTA   | 19620 |
| TCAAAATATT TTCAGGATCT ATTTGTAATC CTTTTTTTTT GATGAAAATA TTGACTTTAA   | 19680 |
| AATTTTCTTT TTCTGTAAA GGGTTGTATA CTCCCACAAT GGATATTTTA TTATCATAAT    | 19740 |
| TTCTGCTTAT TATCGAGTCT TCTTGAAATT TTAGTTTTCC TAATTTATGG TTTGTATCGT   | 19800 |
| GTAGATTGAA ATTACCATTT GGGATGGATT TGCAACCTAA AATTAACAAA AATAAGGAAA   | 19860 |
| TGTTTTTAAG GTATTTTCAAT TTTTGTTCCCT TAAGTGATTC TATATAACTG TATAAATTTA | 19920 |
| ATTTTAGTGC AATAATTATA TTCTTTTTGA TTTTAATTAT TAAAGAATTT GTTATACTTT   | 19980 |
| TTATGCAAGC TTTTCTTTAA TATTAATATA TTTTAGTATA TTTAATGAGA AATTTTAGAT   | 20040 |
| GAAAAAAAAG TTTAATTTTA TTTTCCCTT TATTATTTTT TTGTTTTCAT GCAATATTAG    | 20100 |
| TGTTTCTTCA ATTTTTATTA GACCTTTGGA TGAGGTAATA AAAAGTGAGA TTGCTTTGTA   | 20160 |
| TGAATCGTTA GGAGATGGTA AATTTAAAC CGGCATTCAT GCTAAGAATT ACTTTGATTC    | 20220 |
| TATTAAAGAT ATTAGTTATT ATTCTTATTT TTTTATTTTA GATAAATTTA GCAATAATAT   | 20280 |
| TACAATGAAA TTGACTTTAA GTTCTAAAAA AGCAAACTTA TTAACCTATG ATTTTGGTAT   | 20340 |
| TTTTTTTGAT CGTAAATTTA AATTAGAAAT TGTTAATTTA AATTCAAATG AACCTGAATT   | 20400 |
| TAGCGGTATT GATAGTTTTG ACAAAAAAAT TTCTTTTAAA AATAGAATCA ATGGTAATAT   | 20460 |
| TCAGAATTTT GCCACTATTA TTTTAAATTT GGACGACATA AGGGCTATTA ATCGGGAGTT   | 20520 |
| TGAACTTAAA AATAATATTG AGGATCTTAA TTCTTCTACC AATGAATTTA TATATTTTCT   | 20580 |
| TGATAGTTCT AAAAATCTTG ATTTAAGAGA GTCTTACATT ACTGTTTATT ATTATGTCCT   | 20640 |
| TAAAGCAATT GAAAAATTTT TACAATAAAG AACTTTTTTA TTAGTGCATT TATTTATTTT   | 20700 |
| CTATTATTTT GAATTTTTCC CAAGGTCTA TTTTTTCAAG TAGATATATT TCATCATTGA    | 20760 |
| TTATTTTCCC AACTACGTTT ACAAGACCAT TATTTGGGGT ATCTTTTAGT GCTATTTGAA   | 20820 |
| GTTCTCCTGT ATAACCCAAG TATTCTGAAG AATCTATTAG GATGTCTCCT TTTTAAATTT   | 20880 |
| CATTTGGAGA ATGTACAGGA AATTTTTTAT TATTGTAGTA CACTCTTGGC ATAGTTGATC   | 20940 |
| GAATTCTATA GGAATTAATG TCACCTCTAT TAAAATGTAA ATTTTCAAGG ATTATTTCTT   | 21000 |
| TTTCTACTGA ATTTGCATCT GGATTTAGGT CTGCTTTGAG CTCTAAAATA TTTCTGTTTA   | 21060 |
| CCTTTGATAC TTTTTTTAGT TCTGTTTCAC TTGGAAAACA ATTAGAAATT AGGACTGTAT   | 21120 |
| CTATTCCTTC TTTGAAAAGA TCTTTTGCTT GGGTTTCTAT ATCTTTAGAT CTATGTGATT   | 21180 |
| CTAGCGTAGG AACACCTTCT TTTTCTTCC CTCGTGCGCA TTCTTCTGCA TTATTAGAGC    | 21240 |
| TAATAAATGC GGCTGTTGGG ATTGAATAAT GTTTAAATAT TTTTGTGTGTT TCTTTAAAGA  | 21300 |



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|-------------|-------------|-------------|-------------|-------------|-------------|-------|
| AATTTCTTGA  | AAGTCCTGTA  | TATTTGTGAG  | GATAAAAAATT | ATGACACCCA  | AGTAAATTTT  | 21360 |
| TTATATTAGG  | CTTAAAATAC  | ATTATTGTAT  | CAATATGTTT  | ATTTATATTG  | CTTATATTAA  | 21420 |
| GTTGAATCTT  | AAGGTCAGAG  | TCGTTAAAAG  | TCATTAATGA  | TTCTTCAATG  | CCTGTGAATG  | 21480 |
| TATTGTCTAA  | TCTAATTGCC  | CAGGCGCCAA  | GCTTTTTTAA  | ATAATCTAGT  | TTTGGACAAT  | 21540 |
| TTCTAAGATT  | TGAAAGATCA  | ATGCCTAATT  | CTTTGAAAAT  | TTCAGGACTT  | ACGTCAATAA  | 21600 |
| TAGGTTTCAT  | TCCGTTTTTA  | TTTGCAATGC  | TAAGTAATTC  | TTTGAATATG  | TCAAATTCAT  | 21660 |
| TTCCGTTAAT  | ATAGAGCAAA  | GAGGTAAATA  | CTTGAGTAAA  | TCCAAAATGA  | GCACTTTTTT  | 21720 |
| CAAGATATTT  | AATAATTTTA  | TTTTTAGGAC  | TTACATTGGG  | GTATATGGAT  | ATTCCAATTT  | 21780 |
| CTTTCATTTT  | AGCCTTCCTT  | AAACTGAACT  | TTTATTGTTA  | AATGCATTGA  | TTGCAAGTTG  | 21840 |
| TAATACTTTT  | TCGCCATTCA  | TTGTTCCATA  | ATCGATTGTG  | TTAATTATTT  | CGATTGGAAT  | 21900 |
| TCCTTTGGGT  | TTTGTGATTT  | CTTCAAGTCT  | TTTTTTATTA  | AATCTTGACT  | GTGGTGCAAG  | 21960 |
| TAAAACAACG  | TCAAATCGGT  | CAACAAC TTC | GCTAAGGCGT  | GTCTCAGCAA  | TAGCTTCAAT  | 22020 |
| TGTTGCATTT  | ATATTTTTTG  | ATTTGGCATA  | TTTTTCAATT  | CTTTGTACCA  | GCATACTTGT  | 22080 |
| GGACATCCCA  | GCTCCACATA  | CAAGTAGTAT  | GTTCATATTT  | TCTCCTATTT  | TTTTATTTCA  | 22140 |
| TTTATTATTT  | TGTAAACATT  | GATTAATTCT  | TCAAAAATGC  | TTAATCTCTGA | AATTGCAGAC  | 22200 |
| ATTAAATGAT  | CTTCAGCATG  | AATTAAAATA  | AAAGGCGTTT  | TGACAGAGTT  | TGGATTAGTG  | 22260 |
| GCTGATTGAT  | GTATTATTTT  | TCTGTGTGCT  | TCATGGGCCT  | TTGCAATGGA  | TTTTTTACTT  | 22320 |
| TCTTGTATAG  | TAAGCTCTGC  | CTTGTCATAT  | TCTTTGTTTT  | TGGCATATTC  | TAAAGCTTCT  | 22380 |
| CTTAGAAAGC  | TTTTAGCCTC  | ACCAGAGTAA  | GCTACAACAG  | GCATGCTTAT  | TTTGTCTATT  | 22440 |
| AATCTTCTTA  | TGCTATATAT  | TTTTTTATTC  | ATGTATAAAA  | TATACTCCTT  | TTATTTATAA  | 22500 |
| AGCAATAATT  | AATATTATTT  | AATATATCTT  | ACAAATATTA  | TATTATAAGA  | TATATTTAAA  | 22560 |
| ATAAATAATT  | TTATTATAAA  | TATATCTTAT  | AAGGATTTTA  | TTATCATTCG  | TATTAATTAT  | 22620 |
| ACCATGTTAT  | TATAAATATT  | GTAAGTCATT  | AATTATAACT  | TTTAATTAGT  | TTTTATTGAG  | 22680 |
| AGATAAATTA  | TATTATAATA  | AATATTGTAA  | GTTATTAATT  | ATAACTTTTA  | ATTAGTTTTT  | 22740 |
| ATTGGAGGAT  | GGTTTTTCATG | AATTTTCAAG  | ATTTTATTGA  | AACTACTTTA  | GTTCCCTATTG | 22800 |
| CTAGCAAAAT  | TGGTTCAAAT  | AGATATTTAA  | TTGCTTTAAG  | AGATGGCCTT  | ACTTTTTCTA  | 22860 |
| TGCCCTTTTT  | AATAGTTGGT  | TCTTTTATTT  | TACTTTTAGT  | TAATTTGCCC  | TTTACAGATT  | 22920 |
| CTCAAACATT  | GTTATACCAA  | CAGTGGTATG  | TTGATTTAAT  | GGCTAAATAT  | AAAGGAAATC  | 22980 |
| TTGTTTCAGCC | ATTTTATGTA  | AGTATGGGTA  | TTATGTCTAT  | ATTTGTTGTT  | TTTGGTATTG  | 23040 |

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|------------|------------|------------|------------|------------|-------------|-------|
| GTTATAACTT | ATCTAATCAT | TATAAACTTA | GTGGGATTAC | AGGAGGATTT | TTATCTCTTT  | 23100 |
| ATACATTTTT | AATTTTAGCT | GGACAATCAG | ATTGGATACC | TTACGGTGGA | GATGCTGCTA  | 23160 |
| AATGGGGAAT | TCAGCCCAAT | TCATGGTTTC | CTGTAATTGA | TGCAAGATAT | TTTAGTGCTC  | 23220 |
| AAGGAGTATT | TACGGCTATT | ATTGCTGCTA | TTTTTTCTGT | TGAGGTTTAT | AAATTTTATAG | 23280 |
| TTCAAAAAA  | TATGGCAATT | AAGCTTCCAG | AGTCTGTTCC | GCCTGCTGTT | TTAAAACTTT  | 23340 |
| TTGAAGCTTT | AATTCCTGTT | GTTGCGCTTT | CAATTGTAGC | TCAAAGTGTT | AATATTGCTA  | 23400 |
| TTCAAAGTTC | TTTAGGAAGC | CTTTTCCCG  | AAATAATTAT | GAGCATGTTT | AGGCCTGTTT  | 23460 |
| TGCAATTAG  | CGATACTTTA | GTTGGGACTT | TAACAATTTT | TTTTATTGTT | CATATATTAT  | 23520 |
| GGTTTTGTGG | TCTTCATGGT | ACCAATGTTA | TTATTGCTCT | TCTTAATCCT | ATAATTTTGT  | 23580 |
| CAAATCTTGA | TTCTAATATT | AGGGCTCTTT | CTGACAATCT | TCCACTTCCT | CATATTTTAG  | 23640 |
| CGGGGGGATT | TCTTGATTCA | TTTGTGTATA | TTGGTGGTGC | TGGCGCAACC | CTAGGGCTTG  | 23700 |
| CTATTGCTAT | GATGCTTAGT | AAATCCCAAC | ATCTAAAGGC | TATAGGTAGA | CTTTCATTTG  | 23760 |
| CGCCTGGTCT | TTTTAATATT | AATGAACCTA | TTATGTTTCG | TGCACCAATA | GTTTTAAATC  | 23820 |
| CTATATTAGG | CATTCCTTTT | TTACTTATCC | CTATATTTAA | TATAATTGTT | GCATATACTC  | 23880 |
| TTACTAATTT | TGGAATTATT | GAAAGGGTTA | GAACCTCTGG | TCCATGGACA | ACCCCTGCTC  | 23940 |
| CTATTGCAGC | TTTTTTTTCT | ACAGGGCTTG | ATATTAAATC | GTTTGTCTTA | GTTTTATTAT  | 24000 |
| TATTGATTAT | TTCAGTATTT | ATGTATTTAC | CCTTTATTAA | AGCGTATGAT | AAGGCTCTAC  | 24060 |
| TTTTGCAGGA | AAAAGAATAG | GAAATTTTTT | TAGAATTGCT | ATTGCAAAAC | TTGTGATACA  | 24120 |
| CAATATTAGA | GAGCTATTTA | TAAATAGCTC | TTTTTTTGGG | AGATAAAAGA | ATTTATTTAA  | 24180 |
| AATTCGAAGT | TTATTATTTT | ATGATTTAAA | TTAATAAAAA | GATTTATCGG | TGTGAATAGA  | 24240 |
| ATATTTCTTT | GGTTTATTAT | GCATCCTAGT | ACATATTATA | TAATTTAATT | TAATATATAA  | 24300 |
| GCATATTTTT | TTAAAATCAG | AAATTTTTTA | CTTAGCTAAA | GATTTTAAAC | TTGGTATAAT  | 24360 |
| TGAATTAATA | TGCCTCCAAA | AGTGAAGATA | AAAAATGATT | TTGAAATATT | TAGAAAAGAA  | 24420 |
| TTAGAAATTC | TATATAAAAA | ATATCTCAAT | AACGAGCTTT | CATATTTAAA | ATTGAAAGAA  | 24480 |
| AAACTAAAAA | TTCTTGCAGA | GAATCACAAA | GCTATTCTTT | TTAGAAAAGA | TAAATTTACA  | 24540 |
| AATCGTTCAA | TAATTTTAAA | TCTTTCAAAG | ACTCGTAAAA | TAATTAAAGA | ATATATTAAT  | 24600 |
| CTTTCAGTAA | TTGAAAGGAT | TAGAAGAGAT | AATACTTTTT | TATTTTTTTG | GAAATCAAGA  | 24660 |
| AGAATAAAAG | AATTAAAAAA | TATAGGAATT | AAAGATCGAA | AAAAAATAGA | AGAGTTGATA  | 24720 |
| TTTTCAAATC | AAATGAATGA | TGAGAAGTCC | TATTTTCAAT | ATTTTATAGA | TTTGTTTGTA  | 24780 |
| ACTCCAAAAT | GGTTAAATGA | TTATGCTCAT | AAATATAAAA | TTGAAAAAAT | TAATAGTTAT  | 24840 |

AGGAAAGAGC AGATATTTGT TAAAATTAAT TTAAATACCT ATATTGAAAT AATTAAGCTT 24900  
CTACTGAATC AAAGTCGAGA TATTAGATTA AAATTTTATG GAGTTTAAAT GGCAATAGGA 24960  
CGTCGTCCTG TTGAAGTAAT GAAGCTTTC CAATTTTATA TCGCAGATAA AAATCATATT 25020  
CGTATGGAGT TTATTGCAAA AAAGCGAGAA AATAATATTG TTAATGAAGT TGTTTTTCCA 25080  
GTTTTTGCAG ATCCTGAATT AATAATTAAT TCCATAAAAG AAATACGCTA TATGGAGCAG 25140  
ACTGAGAATC TTACTAAAGA GATAATCTCT TCTAATCTTG CATACAGTTA TAATAGATTG 25200  
TTTCGTCAAA TTTTAAATAA TATTTTGTGCT CCTGAAGAGT CTGTCTATTT TTGCAGAGCA 25260  
ATTTATTGTA AATTTTCTTA TCTTGCATTT GCGCCTAAAA ACATGGAAAT GAATTATTGG 25320  
ATAACAAAAG TTTTGGGGCA CGAGCCAAAT GACATAACAA CGGCCTTTC TTATAATCGG 25380  
TATGTTTTAG ATAATTTAGA CGATAAGGCA GATAATAGCT TATTAACATT GCTTAATCAA 25440  
AGAATTTATA CATATGTTAG ACGTAAAGCT ACTTATTCTA CTCTTACAAT GGATCGTTTA 25500  
GAAAGTTTGA TAAAAGAACA TCATATATTT GATGATAATT ATATTAAAC GTTGATTGTA 25560  
ATTAAAAATT TGATGTTAAA GGATAATTTA GAAACTTTGG CAATGGTTAG AGGATTGAAT 25620  
GTTAAATTC GCAAAGCTTT TAAAGCCACA TATGGATACA ATTATAACTA TATAAACTT 25680  
ACAGAATACT TATCAATAAT TTTAATTAT AAGCTATAGT TTTTGTTTTT TTAAATTCAG 25740  
GCATTATCAA TATATTTGGG AAATATTAGG AAATATTTTA TTAATAAGAT ATTATATAAT 25800  
TTGTATGAAA ATAGGTCCCTC ATTATTTTTT TAAAAAAATT TAAAATCTA ATGACAATAG 25860  
AACGATTTAC ATTTCTTATC TTTATGATAG ATTGGCTTCA GTTAAGCCAG CAGGAGAATG 25920  
GCTTAGAATT TATTTTAAAG ACTCCAAAAG AGGTAAAAA TATTTTATTC TTTTAAATAG 25980  
GAATAGTTCA AATGGTAGTT TTATTTTCGTG CAGTTTTTTA AAAACAAGTT GTAATTGTGG 26040  
GCTTGATATT AAATTCTCTG ATGGCAATTT GAATATTTTT TGTAGAAACA GAAAGTCTTT 26100  
AGAGTTTTTG AAATTTAAAG TCGAACATTT TTTTAGAACT AGTGTGTCTT GCTATAAGAA 26160  
TAACAATTCT TATGTGCACA ATATTAAACC AAAAAATAAG GTTAAGGTAC TTGTAAACG 26220  
AGAGGCAAGC CCTAATAATA AATTTTAAAA TCATTAAATT GAAAAGGATA ATTTTCATCT 26280  
AAAACATTT TTTCAATGTT TTTAATGTTT GAATACTTAT TCCCATTAA TAATTTTTCA 26340  
AATTTTTTCA TTTGTTCTTT AGTATTAAAG AAAGCTACAA TTTCTACCCT TCCATCGTTG 26400  
AGATTTTTTA CAAATCCTTT TAGTTTCATA TTATTGCTA TTTGCTCTGT GAAAAATCTA 26460  
AAACCAACAC CTTGCACCTT GCCAGAAATA AAATATTGTT GTTTATACAT TATTACCTTC 26520  
TTTGTATAAA ATCTATCCA TAGAAAAAGTT TAAAATTTT TCTATTGGAT TAGCTGTTTT 26580

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TATATTATAT TTAAAAATT TTACATAAGC TTGTCGATTT CCATTTTTTAT ATTAtCGGAC 26640  
 AATCCTCCAA ATACAATTTG AACACTATTT CCTTTTTTTA ATATTCCACT GGCACCTAGA 26700  
 TTTTGTGAAAT AGGCGTCTGA TTTAATGACT TCTATTGTGTT TTAGATTGAC TCTTAATCTT 26760  
 GATGCACATG CATCAATGTA TGTAATATTA TCTTTTCCTC CAAGACCCTC T 26811

(2) INFORMATION FOR SEQ ID NO: 7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26782 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GCATTTATAT CTCTATCATG CAAAGTGTTA CAACTACTAC AAGTCCACTT AGCATCACTT 60  
 AATCTTAGAG TCGTATTTTT AATGTGACAA CTA CTGTCATA GTT TACTTGA TGGAAAATCT 120  
 CTATCTACTT TATACAAAGA GGATCCATAC CACTCTGATT TGTATGATAA TTGTCTTACA 180  
 AACTCAGACC ATCCTAAATC ATTAATACTT TTTCCAAACA TTCCTTTTTG CATGCCTTTA 240  
 ATTGATAAAT TTTCTATTAC TATGTTTTTA TAATTGGATA CAAAGTAATA AGATAATTTA 300  
 TGCAAAAAGT CTTTTCTTTG ATTTGAAATT TTCTTATGCA GCTTAGCAAC TCTTAATCTA 360  
 GATTTAGCCC TATTAATAGA ACCTTTTTGC TTTTTTGATA GTTTCTTTG ATATTTTTTA 420  
 AGTTTATTTT CATTTTTTAA TAAATATTTA GGATGATTGA TTTTCTCACC CCCACTACTT 480  
 ACTAAAAAGT GTTTCATACT CATATCAATA CCAACTATCT CTTCTTTATC ACCTTTAGTT 540  
 TCATTGTTAT TTTTAGTATC TAAGCACTCA ACTGTTATTG AAATATGATA TTTATCATCA 600  
 GTATCTTTTT CTACTACTAC ATTTTAAACA AGCTCATTAT CTTTAATGCA CCTATGTAGA 660  
 CACAACCTTA TAAACCTAT TTTAGGTAGT TTTTATAACC ATTTTCTATT CTTATTGAGT 720  
 TTTTTTGATT ATTAGTTCTA TAAGTTTGCC TATTTTTCTT ACTTTTATAT TTAGGAAATC 780  
 CTTGCATTTT ATTTCTTTT TTAATTTCTC TAAAAAATT ACTATACGCA AAATTTAAGT 840  
 CGATCCACGC ACTACAAAGA GCCAACTAT CAACTTCCTT TAAAAAAGGA AATTCTTCTT 900  
 TATATTTACT TGGATAGGTA ATAAGATTTT GTCCATTATT TTTATAATAA TCTTCTTAT 960  
 CACTTAACAT TTTGTTATAC AAAAATCTTA CACATCCAAA TACTTTTGAA AAATATTTTT 1020  
 TTTGATTGGT GTTGGGATAT ATTCTGCACT TATAAGCTTT ATTAGCACTC ATTATTTTTT 1080  
 ATAATTATAA TATTATATTT TAACTTGCCT TATAAATTCA TCTCCACCTA AATATGAAAA 1140  
 AATTCATAAA AATTAAATAT TGAGAGTTAG GCAAATTATA ATTTTATCTA AAAATAACAA 1200

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| AGAATACTCC | ACCTACAATT | TCTATGAAAA | AAGTATTTAC | TTTCTGAAA  | AAATTGTGCA | 1260 |
| TTATATATAA | TATAAATCCC | ATAAGGAGTT | CAACAATGAT | TAATAATTCA | AAAAAGCCAA | 1320 |
| ATTGTCACAA | CAAGTTACAA | CAAAAATTAA | TAGTTCTTCT | TTCAACACTT | GCATACGTAA | 1380 |
| ACAGCAAATA | TAATAAATAT | ACCCAAAAAA | ACATACTCTA | TTGCTTTAAT | GAAAACCTAA | 1440 |
| AAAGAAATGG | ACAACCTACC | ACTACACTAA | GAACAATGCA | AAATTATCTT | TATAAATTAG | 1500 |
| AAAAAGTATT | TAAAGTAACA | ACTAACTACT | ACAAACACTT | AGGGATAAAT | TTCGGAAGTG | 1560 |
| AAATTTACTA | TAAGCTAAAT | TATTCTAAAA | AAGAGTGTTA | TCTTAAAATC | AATCAACATT | 1620 |
| TTAGAGAAAA | AAAAGACTAT | AGGTTTAAAG | CTAGAGTTGA | TAACTATCTT | AACGACAAAT | 1680 |
| TTAATAAAAA | TGGGAGTGTA | GATTTAGTGG | AGTGTTTAAA | TAATAAAAAT | AATAATATAA | 1740 |
| AAGAAGAAAG | AAAGATTATA | CAAATAGAAA | AGTATCAAGT | AATAAAATAC | TTCAATAAAT | 1800 |
| GCAACTTTTC | TTTATTAAAA | GAAATTCTTC | CAATTTTAAA | TTTGATATT  | AATAAAGATG | 1860 |
| AATTGATTAA | AATACTCAAA | ATTATAAAAA | GAATTGAAAT | CAACCTAACA | AAAAATAAAA | 1920 |
| ATACATATTT | AAATGTGTCT | TATTTTAAAG | AAAAGCAAAA | CAAATTAAAG | AAAATATTAA | 1980 |
| GCAACACTCA | ACAACAATTA | GAAAAAATG  | GATATAATCC | TGAGCAATTA | GAAATAAGTT | 2040 |
| TCCAAAAAAT | ATATGAAAAT | TACAAAATA  | AACCCCATTT | TATCATTGAA | AATCATAAAT | 2100 |
| ATAAAGATTT | AAGCCATATA | AAACGCAAAT | TAGAAAAATC | AATTGAAAGA | AAAAAAGAAA | 2160 |
| ACTTACAAAA | AGATTGCGAA | AATATGAGGA | CAAACATTTT | CAATATACTC | ATTGAACAAC | 2220 |
| TAAAAAAGA  | AGTAAAAATT | GACGTTTTAA | AACCAATTTT | AAAAATCTAT | TTGAATAGCA | 2280 |
| AAAATAAATT | AGAATATAAT | AAAGTATTTA | ATAATAATTA | TTATTATGAA | TTATTAGAAA | 2340 |
| TAATAAAAAA | GGAAAAAAT  | CTTCAGTTAA | AAGAAGTTGT | ATAAGAATTA | AATATGCAAA | 2400 |
| ACATGGCAAA | ATCCATACAA | TTAGTTAAAC | CAATAGTTAG | ATGTTCAAAT | AAAAAAGATC | 2460 |
| TTTTTATTAA | GATTGAAAAA | GATAATGATA | AAACAATATA | TCACACAAAA | ATAATGATGG | 2520 |
| ATATTTATAA | ATTTGGACTT | AATAAGAAAA | AAAATAAATA | TCGTATATCA | TTAAGAGGAT | 2580 |
| TATTTAATCA | ATCAAAAGTT | GAAGAATTTA | ATTTATTTAC | ATTAAGAGCA | GATGATAAAT | 2640 |
| TTTTAGGCAT | TTATTACGGG | TATAAAAAAC | GAATAAAGAA | AATTTTGTG  | AAGTACCAAG | 2700 |
| TTGGCGGAAT | TGAAAAATCT | TATTCCTTGT | CAAAGACATA | TTACATGGAG | GTTAGATTTA | 2760 |
| AAAAGGGAAG | TATTTTTTGC | TACTTTAAGA | GCTTACCCAG | GATACTAAAA | AAAGAAAATG | 2820 |
| TTAATACGAC | CTACAATAAA | GCATTATTTA | GTATGTTTAC | GACATTAGAA | AGGCAAGTAT | 2880 |
| ATGATTTTTA | TGATAAAAAA | TACCCACAAA | AAGGACCTTT | TATAAAATGG | ATAGAAAAAA | 2940 |

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| GTTGGCTAAA  | AAACCACATA | TTATAGCTAT | TGCTTCAATT  | AAGGGAGGAG  | TTGGTAAAAG  | 3000 |
| CACTTCTTCG  | ATAATGTTTT | CAACAATTCT | TAGCAAAACT  | AATAAAGTGC  | TACTTGTGGA  | 3060 |
| CCTTGATCCA  | CAAAACGCAG | TTACAAGTTA | TTTTATAACT  | CAAGATCATC  | CGAGAATGGA  | 3120 |
| ATTAATTAAC  | ATTTATAATT | CTTATTCTTT | AATAAAGAAA  | CATAAAACTT  | TTAAGGATGT  | 3180 |
| TGTTATTAGT  | ATATCTAAAA | ATTTGGACTT | TATTCCAAGT  | TATCTAGAGC  | TTGCTAAATT  | 3240 |
| TAGCAAAGAA  | GGAAATCAAT | TTAAAGAACT | CATGCTTAGA  | AATGCAGTAT  | ATAATTATTT  | 3300 |
| AGAAGATTAT  | GATTACGTGA | TAATTGATAC | TCCCCCAAGT  | TTATCGTCAG  | AGCTTGACAA  | 3360 |
| TGCTCTTG TG | ATTGCAGATA | AAGTTATAAT | ACCGGTTCCA  | CTTGAAAGGT  | GGGCAGTTGA  | 3420 |
| AAATTTGCCA  | TTACTAATAA | ATCAGATAAA | AGAATTAGAA  | AATAATTTTA  | TGGGGAAAGA  | 3480 |
| GGCCAAAATT  | ATTCATATTT | TTGCATCTAA | GGTTGAAATA  | GGAAGGGTTA  | CTTCAACTGA  | 3540 |
| AATTATGTCT  | TTATTAAAAG | AAAAATATTT | AAATAAGTTT  | ATTGGAGAAG  | TTCACAAAAG  | 3600 |
| CGAAGCTTTG  | AAAAAGATAA | TAGATTATGC | TATAGGGCCA  | AAAGAAAACG  | AAAATTACTA  | 3660 |
| CAAAGAATAT  | TTAAGAATTT | TAGAAAAAAT | TTAGCATGAT  | TTTTTTTAAA  | AAAAGTCCAG  | 3720 |
| GCACTGGACT  | TTTTTAGAGA | GGAGTTTAAA | AAATGGTAAA  | AAATAGAAAA  | GTAATAATAA  | 3780 |
| ATGATAGGAT  | TGTAAGAAAT | GCTACTTATA | TTAATACTGA  | AGAACGAGAC  | AAAAAAGAGT  | 3840 |
| ATGAACTTTT  | AAAAAATGAA | CTTAAAAATA | GAATAGAAGA  | TGATATTAGA  | AATAAAATAA  | 3900 |
| ATACAATGAA  | AATTTTACTA | GAAATTAGAA | ATAGAAAAC T | TTATATTTTA  | GATGGATATA  | 3960 |
| AAAAGTTTGA  | AGATTTTATT | TTTGACTTTA | AAATAGCCAG  | AACTCAGGCG  | TATAAGTATA  | 4020 |
| TTAAAATAGC  | AAACTTATT  | TTTGAAGGAA | AGCTTGAAGA  | AATTGATATT  | ATAGAAAATG  | 4080 |
| GGATTGATAA  | AACTTTATTT | AATTTGATGA | AAGATAAAAA  | AATTAAC TCT | AAAGCAAATT  | 4140 |
| TAATAACACC  | ACTTAGGGTT | AGGCTAGAAA | CACAAGAGGC  | ATGCGATTTT  | TACAAAATGA  | 4200 |
| ATCCAAAGTT  | TGCTAATTAT | ATTCTTGAAG | ATTTTTATCA  | AAAAAACAAA  | GAACAGCTTA  | 4260 |
| TTAAAAAATT  | AGAAGAATAT | AAAAATAAAC | AAAAATACTC  | TTAGTATATT  | TAAGCAAAC T | 4320 |
| TTTACTTATA  | TAGAATTTTT | ATTCTAATAG | CAGAGTAAAA  | GAAAAAGACC  | ATTAGCAAAA  | 4380 |
| GCTAAAGGTC  | TTTTTCAAGG | TATTGATAGT | TACATAATAA  | ATTATGAACT  | ATCAATATCA  | 4440 |
| ATATTATATA  | CTAAAAAAGA | TAAAATATCA | AGAAATTTGA  | AAATTTTTTC  | ATATTTTTCT  | 4500 |
| ACTCTGCCAT  | TCTGAATCCC | ATTAAATGTT | CTTTTGATTT  | TAGCATTCTA  | ACTAATTTCT  | 4560 |
| CAGCATCAAG  | CACATCTCCA | TTAAAGTTAT | AGTAAAAATT  | ATTTACAAC T | GTACTGCTTT  | 4620 |
| GAGTTTTTTG  | TAATTTAGTA | ATTTCTTCTG | CAATAATTTT  | AGCTTCAAGT  | TTGCGTAGAT  | 4680 |
| TTTCATCTAT  | TGGTGCTGGA | GTTATTCTTA | CTAATTCTGG  | TTGACCAAAC  | TCACTAGACA  | 4740 |

|            |              |            |             |             |             |      |
|------------|--------------|------------|-------------|-------------|-------------|------|
| TTACACCTGA | GTTTGGCATA   | TATGTCGGTT | TATTTGAAAC  | AAATCGTGCA  | CCGCCATGAG  | 4800 |
| CAAGTTTTAT | CTCTTCAATA   | GATCCAGCTG | ATTTTACTTT  | TGCAATTCTT  | TTTAGTATTT  | 4860 |
| CGTCTAAAAT | TTTTTGTGTT   | TTTCTTAACC | TATCAGGCTT  | GCCCAAATTC  | CACCAATCTT  | 4920 |
| CAGCATTTAC | CTTATCAACT   | TCGGCCTGTG | CTTTTATTCTG | TTCTGGGCTCT | AGTTTAGAAA  | 4980 |
| GTTTGTTTTT | GCGTTCCTACT  | TCTAGTTTTT | TAGCCTCTTC  | GGTCTTAGTA  | AGTTGGGTGG  | 5040 |
| TTTCTATATC | TTTTTTTGTGTT | TTATATTCTG | TTTGTACATC  | GTGTAATCTT  | TTTTGAAATT  | 5100 |
| CTTCACCAGA | TATTTGTCCT   | TTACTTTGAG | CTTGTTTGAG  | AAATTCTATT  | TCTTTAGTGT  | 5160 |
| ATTCATCATC | TAATTCGCTC   | AATTTTTCTT | TTCTCATTTT  | GATTTCTTCA  | TCAAAACGAT  | 5220 |
| CTTCAAGCTT | TTTAAGTTCG   | ACTTCACTTC | GTTTTTCAAG  | TTCTTCCAAA  | TCTTCGTCCC  | 5280 |
| GTTTTTTTTT | AATTGCTTTA   | ATTCTCGCTT | TTTCTTGCCC  | CTTCAAAATT  | CCCCAAACAA  | 5340 |
| AATCGGTCAA | TCCGTTTATA   | AGCTCCGCAA | CAGCTTCTCC  | CCAAGGTCCA  | AAACTGCTC   | 5400 |
| CAGCAGCAGT | TTTTAATCCA   | GTTTTCCAAG | ATTCGTACAT  | TTGTGTTGTC  | ATTTTTTCCA  | 5460 |
| GACCTTCACC | CCAATTCACA   | TCCTTCCCAT | TAATCAAATT  | ATGAAATTCT  | TCTCCAATAC  | 5520 |
| TTTCTCCCGT | ATCCTTATTC   | AAAAATTTGC | CCGCTATATC  | TTTCATAAAG  | GCATTCTTAA  | 5580 |
| AGACATTTAG | GCCGTCTATC   | ATGCTGTCAT | ATAAGCTTTT  | TGTCGTATCT  | TGAGCTTTCT  | 5640 |
| CAGCATATTG | TTTTATAGTG   | TTTCTATTGG | TTTCATTTAG  | CTTTTTTAAAT | TGCGATTTGT  | 5700 |
| GCTCATCCAC | GAATTTTTTA   | TACATTGCTT | GAATTTTGGA  | TGCCATCTTT  | TTTTCAGCAC  | 5760 |
| TTGCTCTTTC | TTTTGCTGGA   | AGTAGCATTG | TTTCCCACTC  | TAAGTCGGTT  | ATTTCTTTTT  | 5820 |
| GCAGAGCTTT | TTGAGCCTCG   | ACAAAAGATC | GATCTAAAGC  | GGTTTTTTCA  | TATTCATTAA  | 5880 |
| CCTGCTTTTC | AAGTGCGACT   | ACAACTTGCC | TGTTAGACTC  | GTTTCAGAGTT | TCGAAACTTT  | 5940 |
| TTCCATATTT | TTCTACGAAC   | GCTTTGTTCT | TTTCATTGAT  | TTCATCATTA  | AGTTTCTGTA  | 6000 |
| AAGCGCTTAC | TTgATCTGTA   | TGGGGCAGAG | TTTTGATTAT  | TTCCCTTTCA  | CGACTTTCTT  | 6060 |
| TTTCTTTTAG | TAAATTTTGG   | TACTCATTCA | CAAATCATA   | ATTGGAGTTA  | TTGAACTCAT  | 6120 |
| TTACTGATTT | TTCAACTCCG   | ACTAAAATTT | TCTTGTTCTC  | GTCAGTTAAC  | TGATCAAATA  | 6180 |
| TTTTGGAGTA | TTCATCCTTA   | AACTTTTGGT | TTTTTTCATT  | TATGGTTTTT  | TCAAGATTCC  | 6240 |
| TTAAGGCTTG | TTCTCGTGCT   | TTCCCGGTCT | TATTATAGAT  | GTCCCTCTGC  | CTATTAAATA  | 6300 |
| TTTCGTCTTG | CAGCTTTTGA   | TAGTCTTCTG | CCATTTTCTT  | GTTAATATTG  | GTTTTTGCAT  | 6360 |
| TTGGATCAAA | CTTTTTATCC   | CTTTCGGGTT | CGGAACCAGA  | AGTGTCTTTT  | TCCTTTTTCGG | 6420 |
| CTTTTTTCCA | AAAAGTAACC   | AGATTTTTC  | ATTTTGTATA  | CGCTTTGGAT  | ATCATATCTA  | 6480 |

|            |            |             |            |            |            |      |
|------------|------------|-------------|------------|------------|------------|------|
| TCAACTTTTG | AACCCATTG  | ATAATGGGCT  | CAAACGCACC | CTTAAAACGA | TCTAAAAATC | 6540 |
| CACTAGAAAC | ATATGTTGCA | AGTTCTTTTA  | GCTTGCCGAT | TACGTATTTG | ATTCCCTCGT | 6600 |
| AGAGCTTAAC | AAAGGGCGTG | GTAATGGCCT  | TGAACAACAT | TTTCATGCCT | TGCACCCACT | 6660 |
| TGCCGGCAAG | ATATGCTACA | AGCTCACCCA  | ATTTGGTAGT | TAAGTATATT | GTAGCTGTAG | 6720 |
| TCACCTTGGT | CAAAGGAACC | ATGATTGCTA  | CCATAAGAAA | TTGTTTTACT | TTTTCAAATC | 6780 |
| CAATCATCAT | TGGCTCTAGA | GCTTTTCCAA  | TGTCTAAGAA | AAGCTTTTCG | CTCATTTTGG | 6840 |
| CAGTTTGTTG | TTGAGCTTGA | GCTAAAGTTT  | TTGCTTCTTT | GGCGGTGTTC | CCATAAAATT | 6900 |
| TACCACCTTC | GCTAGTGGCT | TTGGAAAGAG  | CTTTATTTAG | GGCGTCGAAT | CCTATTTTTC | 6960 |
| CATCGCTCGC | TGCCTTATAT | AATGCCTCTC  | CAGCTAAACC | AGCTTCTTCT | GCCAAAATGT | 7020 |
| CTGTAATGTC | AACACCCGCG | TCACGAAGTG  | CATACAAATC | TTCTAAATTC | ACTTGATTGC | 7080 |
| TCGATTCTAC | ACGAGAATAT | ACTTCGGCTA  | ATTTCTCAAG | CCCCTCGCTA | CTTCCACCAG | 7140 |
| CAGCCTCCCC | AAACATTCTA | ATTCTCTCTT  | CAACTTCACT | CGCAGTTGCA | CCATAAGAAA | 7200 |
| GCATTGTTTT | AGTAGCATTA | GCAATAGCGT  | CTCTAGTAAA | AAGAGTTTCA | TCGCCAAAAG | 7260 |
| CCCTCATGGA | TTCTGCTAAA | GATTTTCCAA  | GGTCTTCGTT | TCCAAGCATG | TCAGAAAACG | 7320 |
| TTGACACTTC | TTCGTTGAAT | TCATCAAGAG  | CATCCATAGC | GCCATCAAAA | ATTCCACTTA | 7380 |
| TTGTAGAGCC | GATTGCTTGT | ATAGCCTTTA  | CAGCCATAAT | AATTGGGGCA | AAAGCCGCCA | 7440 |
| ACATTTGGTT | GAATGCCTCA | CCAGTTTTGT  | TTGCCAAATT | CTTTACACTT | CCTAAGCCTT | 7500 |
| TTCCAACACT | TTTTAGAACT | TTGCCTATAC  | TTTTCATGCT | GCCAGCTTTG | GAATTTACGG | 7560 |
| AATTAACAGA | ATTTGCAAGA | GATTTGAAGT  | TTTAAATAGC | ATTCTGCGAA | CTTTTGTTTA | 7620 |
| GCGCTTCTC  | TAAGTTGGAT | CCAGATTTAG  | CAGATTTTTC | TAATTTTGAC | TTCAAATCAT | 7680 |
| CCAGACTTGA | AAATTTTTGT | TCGGCAATTT  | TTTTTAGAGT | TTCTGCTATT | GCGTCCAGCT | 7740 |
| TTTGATTATT | GCTGATCGAC | ATTGATAGCG  | GAATTATTAT | TTTATCAAGT | TTTATCTACT | 7800 |
| TCTGCTCTCG | CTCTCAAGAT | TTTTGATGTA  | CAAATTGAGT | TCGTTCAAAA | CCAAAACAAA | 7860 |
| CCAGTAATTT | TGCTCAAAAA | GGCCGCCCCCT | ATTAGGCAAG | CTGCCAATAC | TTTTTGAAAG | 7920 |
| TAAGGCTTGA | TTTAGTAAAT | GCAGAATAGC  | ATCCTCATTA | TATTTGATCC | AGGGAAGTTC | 7980 |
| CTTTTTCATA | TTCACTATGA | ATTCTGAATT  | CACGCGATCT | GCAAAATTCA | GAATTTGGTC | 8040 |
| ATAGTGATTT | TTTTTTGTAA | TATAAGAGAA  | TGCAAGCTCT | ACTTTTTTGA | AACACGCTCA | 8100 |
| ACCCTTAGAG | TATCTGCCAG | AAAATTAATT  | TCGATTGCAA | GACTTGAAAG | CATGTCTTGA | 8160 |
| AACAAGATAG | CGTCACCTTC | AACCATCTCT  | TTGGTGATAA | CCTCTCCTTG | TTGATTTTCA | 8220 |
| AGACCGACGA | ATCCTACCAC | ATTTTCATCC  | CAAATTTTTT | TTACAAATTG | AATTTGAGCG | 8280 |



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|--|-------|
| CTTGTTGACT CAATCATAGC ATTGGAATTG GTTTTACCAT TCTCGCCATT CAATTTTTTTG | 8340  |
| AAAAGTTCGA TTTGTCTTGC CTTTAGATTT TCCACAAACC CATAGTTAAT GTCTTTCAAA  | 8400  |
| ACCACATATG CTTTCTCTTC TTCTTTGATC TTTTCCTTGC CGTTTCTAAT ATAGTCTGGG  | 8460  |
| ATATAGGGTA ACATTACCCT GCCAGTCAAA TTAACATTAA TTACCATTGT TGCCTCCTAA  | 8520  |
| ATCTTGAAGA ACCTTGCATC TTTAATATAG TCGCATGAAA GGGATACTAA GGGTTTTGTC  | 8580  |
| AGAGTAAGCT GGCACTTTAG ATCGATTTTT TGATTGTTCA AGTCCTGGCT TGGGTTGTAA  | 8640  |
| GTTGCAATTT GTCCTTCGCC CACCATGAAT TTGGTTCTTT GATCTTGATC TGCAATTTGA  | 8700  |
| TCTACAAAAA GTACCGTGAA CTCGTAATTT GTAGGCAAAC TCGGTTTTCC AATTTGCCAT  | 8760  |
| TGGTCATTAT TTTTGTAAAT ATCTTGTGTT ATGAAATGCG ATTTTTCTAT ATATGTATCT  | 8820  |
| AGGATTTCTT CCTTATTAGT TCGGTTTCT CTAACGGAGT ACCCGCTAAA CTCAACAGTT   | 8880  |
| TGCTCTGGTA TTTTTCCAAT TGCCGAGATT GATCCGCAAG TTGTTTTTAG AGTTTCTGTA  | 8940  |
| GCTTTTGTTG AGCTGATGGT ATATGAATAC CCTAAGCAAT ATGTTTTGAA AAGTAGAACA  | 9000  |
| TCAATTTTAT CAGCATTATC ACATGCAGTA GATATTTTTG TCAAAAGATC TTTGTTATAG  | 9060  |
| TAGAAAATAC TACCTTCTTT TAGATCTAAA TCTGATGTAA GTTTTGACTT AGAATCAATC  | 9120  |
| TTTTTAACCC TAAAAATGCA TTCGCTAATT GACTTCCATT TGGTAGGCTT TGTATGTTT   | 9180  |
| GAGCCCAAAT CTTTTACAAC TAAATTAGTA GGATCTGTTC CAGAAGGTTT ATTATTATTT  | 9240  |
| TTAATGTCTG AACCTTGAA ATTCCACTTG AATTTTTCAA TATTGACCGT AACTAGCACT   | 9300  |
| GCGCCAGTCG GCATTCTCAA TTTTTCATTT GCCATTTTTA CCTCCACGAC AATTAATGTA  | 9360  |
| ATCAGCGCCA TCTATCCTAA TTCCCAATGT TGAATCAACC AATGTTACCA TTCTTGCATC  | 9420  |
| AGAATTTTCG TCTTCAACCT GGAATCGTC AATGCTAAAA TACTTCAACG AATAATTTAG   | 9480  |
| CATTAGAAAC GCCACAATTA TATTTGCAAT CTCAAGCCCT AAAGTAGGAC GCATGCTACA  | 9540  |
| CTCTGTGTAA ATTATGAACT TTGGACACAA AAGCATCGAG TAATTTTTGC AATGATTGAG  | 9600  |
| AATTTCTCCA GTACTTTTTTA CTGCAAAGAC AATTGATGGC AAGTCTAAGT TTGAACATGC | 9660  |
| AAACATTTCA GACTTGTAAT ATACTTTTGT GGTGTTTGT TTACAAGTAG CCAAGTAAGT   | 9720  |
| TTTCAAATTC TTTTTCAGAT TAATGACAAA TTCTTCTATG TGCTTCATCT AAGTAATTTT  | 9780  |
| GCAGACTCCT TTAATAATC GCTTGTCCAG TTTGTATATT GGTTTTTAGG TTTTCTCTTC   | 9840  |
| TTCAAAGATA GCCAAATGGG TACTGCTGAG GATTCCTATC CCTTATATGC TGCCCAACTT  | 9900  |
| TTGATTTTTG TTAGACTTGG AGCTGGCAAG TTGTTGTTAT ATGCCTGTCC TGAGTCTAGA  | 9960  |
| AATTCAGAAA GAGGGGAGCC TACCTTTACT TTTAAATTAA TTCCCAAAGA AGTTTCTTCT  | 10020 |

|   |       |
|---|-------|
| AAATCAATAT TTGTTACATT CGACAATCGT CCGGGGATAT GTGATTTTAA GGAGTCCGAC   | 10080 |
| TTTTGTCTGGA TTTTAAAACC AACGAACTT TTTGCATTAT CAAATATAGA TTTTCTTATT   | 10140 |
| TTTTCTCCAA TTTCCATTTG TTATCCTTTT GGTCAACCAA TATAAAGAAA GGGACAAGAA   | 10200 |
| TCAATACGAG GGAATAGGAA ATCAAGTTGA GAGAGCAAGT ACTTAAATTT ACACTCTTTT   | 10260 |
| TGATCTCCTT TACACCTAAT ATTGAAAAC TCTAAATAAA GAACATCAAG CAAAATTACA    | 10320 |
| AGCCAATTAT TGTAAGCAAC TCCCATTG TACAAGGCCA AAATAGATTT TGCATATCTT     | 10380 |
| AGTACTTCAA AAAGTTGCAC TTTTGTTTGA TCTGGGATAC TAATGTTTCC GTCTTCATTA   | 10440 |
| GTGCACTCAA TTCGTAAAGA TTCTATCTTA GTAAGATTGA TCCACATAAT AAGATCGTCA   | 10500 |
| AGTTCACTCA TTTGCTAAGT TTGTTACCCA TTAGGTTTTG TAACTTCAAT TTCAATAACT   | 10560 |
| TCTTGTGGTT GAAAGTGAAT TATTCCTGCT GATTCCATTG AGGCATGAAT GTAATCTCCG   | 10620 |
| TCTGATGATG CAAATTTTCT AAAGAATATT TCTGACAACA TTGGAACAAA CATAACTTCT   | 10680 |
| GGATTTGGTT GATAAAGTAT AGGATTTTTC AATCCTTTGA AAACCGAAGT TACCACTTTA   | 10740 |
| TGATCTCTAA AAAGTGCTTC TTTAACTGTT ACATACTGAG GTTCGCTGTA TAACTCTAAT   | 10800 |
| AAAAGGTGAG AAAAATTGTG AGGAACTAAA AGATGGTAAC CCTCATCAAG TTTTTCATG    | 10860 |
| TGTTTTTCTG CTTCACGTTT TGCAAGTGCT ACTTTTTTCAT ACAACGTATA TCCATTAGTA  | 10920 |
| AGTGTTTCAA CAGTAACTTT ACTTCTGCCC TTTAGATTTG CAATGCCTTC CATATTGATG   | 10980 |
| TTTTTTTTTAC CAAAAATAAC AGAATGGTAT GCATCCTTCA TAAGGCCAAG CTCTAGATTA  | 11040 |
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| ACAATATAAT AACCTTGTCT TAGATCATTT CTACTTATCA TCTTGTAAAG TACAAGCTCG   | 11280 |
| GAAAGGCCAC CTTTGTCAAG TTGTATTATA TCTGCAC'TGT AACTACCACT TGCTTCTGCA  | 11340 |
| AAAATACTTC TACTCAAGAA CTACCTCCTA TTTTTTCACA AATTTTTACG TTCATGCAAA   | 11400 |
| TTTTCTGTTA CCATTAGACT CAAACTCAGG GCCAATATTA ACATCAAGCA AAACTACTTT   | 11460 |
| GCTATTTGCA TCAAGACTAA CATCTTTGAT TCTCCCAACT TGCACACCCC CTTTGCCGTC   | 11520 |
| TTTTACAAGT TTCCCCCCT TTAAGAAGAC AAAATCACCA ATTTTAGGAG TTGCAAATGT    | 11580 |
| GTTATCTAAC ATAACGGTTA TTTCCCCGGC ACGTCTTATT GGAATTAGTT CGCCCGGTGA   | 11640 |
| GTAATTTTCA CTTTCTAGTA AAGCAATATC TGCCTTTTTT AAGGCAAATC CACGAATAGG   | 11700 |
| ACCAACTCCC GCTGTTGCAG TTGCAGCCTT TACCAGTACT TCTCCCATTT CACTTGATCC   | 11760 |
| ACTTGAATAA ACTGGATCTC CCGGTTTGAT GATGGGTGAT TCAACATCAA CTATTGCGGT   | 11820 |

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| ACCTCTACCA AAACGAGAAA ATACATATTT GAGTTCTTCT CTTGCTGTTG GCAATACAAA | 13800 |
| AACCCCTTTA AATTTATTAA TTTCGGATTG GTAATCAGTT TTTGATAGTA AAACCTTACT | 13860 |
| ACATGCGTTT GTAATAATTA CAACTGGAAG ATAGGAAATT CTTCCAACAA GAATTTCTAA | 13920 |
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| CTCTTCTCCT AAAACCTCAA TTCTAAAACC AATGTCATTG CCATGATATG CAAGTCTTTG | 14100 |
| TTTTTCAAGC CAAGCTTGTA CGTCTCCACC ATTTAAAAAT GGGTTGTCAC GGTAAGTGCT | 14160 |
| TTTGATTATA CACACAGCAG GATTGTCTTG ATTTGATAAG TACCTTTTGT ATAGCCAATG | 14220 |
| TGATTTAGGC ACCGGATTGC TTGACATATA GATTCTGCCG CCTTGTTC TCATTGTAGG   | 14280 |
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| TTTTTTAAAT TTTCTTGAAT TTGTAAATTG TCCATAATTT TTCTCCTAAA GATCGTATCT | 15060 |
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| GTGATTCTTA TAAGAATCTT CTTGTGTATG CCCTAAGCTT CTTGTACCGT CAGAATCGGT | 15360 |

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| ATTGACTCCA GAAAGCCTGA ATGATTTTTT TGATGTAAAA ATATGTTTAG AAAACCCCGT   | 17400 |
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| ATAAATGTAA AAATCGCCTT TAAGTAGTTT GATCTTGTTA AGTCCAGCTT GTTTTGCAAA   | 17520 |
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| GCTGCACTTT CGAGTAATTC CGATTTGTAC TTTTATTATAA AGTAGTCTTT CAAAAGTTTG | 20700 |
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| TTCTTTTTAG TTCTTCTTTT AGTTCTTCTT TGATGGAGTT TTTCATTTCT TCGAATTCAG  | 20940 |
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| GGACTGAAGT TTTTAGATCA GCCATCACCC CTTTAAAAGC GTATGTGCCA AGCCCAGAGA  | 21060 |
| TAGATATTAC TAGCATTGCT ACAATGCTGC CAATAATATT TATTTGTTTT TTTACTCTTG  | 21120 |
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| AAAATAAATA AAATATGGTC TAGCTAGACT GGATTAAAAA TCCAAGTGTT ATCCAACAAT  | 21240 |
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| AACTCTTG TGAGTTGATCG TTATTCGGCG TCGGATATTT ATAGACTGGT TGCTGATCTG   | 21780 |
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| GGAAAAGGAA GCATTGCTCA TTATATACAA AATACTGAGC TTGTAGCTTA TCATAAGGAA  | 21960 |
| ATAATTTGGG AACATCTTGT TCAATTACTT TATGAAAAGC TTGAGAATAA AAAAATAGTT  | 22020 |
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| TATAATGCTA ACAATCCATT AAAGGATCTT TCCGATACGT CCAATGGGGC CTCTAATTTT  | 22140 |
| TCTAACAATT TTTTCAATAA ATTTTCTAGA CATTCAGAAA GATTATCTGA AAATATTTTT  | 22200 |
| TTGAAATCTT CATGCGACAC TGTCTTAACT AATCAGGATG TTGACAGTCG CACCACAATG  | 22260 |
| TCGCGCCACT CGCCACCGGC TGTATTTAAT AAAGCTAATA TAAGCTATAG TAATTATAAG  | 22320 |
| AATTCAAAGA ATTCTTTATG TAATTCAAAA ATTCAAAAAA ACAATATTAA TTTTGAAAAA  | 22380 |
| AAAGATATTG AGACTAAATT GATCGAAAGG AATATCCCAA AGGATTTTCT TAGTCGCATA  | 22440 |



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| AAAGATCTTA | GCAATAATCC  | TACAACTTAC | AAAAATGCAC | TGTATAATCT | GGATAAGGCC | 22500 |
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| TCTATTTATC | GATATAAAGT  | TTGGATGATG | ATGAAGCGTA | GGGATGGGGT | TATTAGCGAT | 22620 |
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| AGGGACAAGA | TTTGGCATGT  | TTACAGAAGT | ACGGAAATTC | AAAACAAAGC | TAAAGACAAA | 23100 |
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| CGTTTTTAGG | TATATTTTAT  | GGGTACAATA | AGGTAAAAAA | TAATCCATTT | TACAGAGATT | 23760 |
| ATACTTCTGT | TTGTAGCTTT  | TCTAAGAAAA | TATTTAAATC | TTTTAACAAA | TCGTATTTTA | 23820 |
| TTGAATTTAG | ATTTAAAAAG  | GGGAGTGTGT | TTTTGTATCT | CCACACTATA | GCTTATTTGC | 23880 |
| TTAGGGATAG | AGATAGCTAT  | AATAGGGAGC | AGAAAAAATT | ACATATGCGT | CTGATGGAGC | 23940 |
| TAGAAAAAGG | AGTATTTAAG  | TTTTATGGTC | GAGATTTGAA | TCCCCAGGGC | GAAGGTATTA | 24000 |
| TAACTAAGTG | GATAGATAAA  | ATCAATCAGA | AAAAGTTGGG | CAAAGAGGAT | AATCCTAGTT | 24060 |
| TGCTTCGCAG | TCTGCTACGT  | AGTCGACTGC | GTAGATTTTG | AATTTACAAT | GTTACTAAAG | 24120 |
| GGTAAATTAT | GAAAGTCGCT  | AGTCTTATAA | GGTCAACTTG | TGAAAATGAA | AATTTAATTT | 24180 |

|            |            |            |            |             |            |       |
|------------|------------|------------|------------|-------------|------------|-------|
| TGCGGAGCGG | ATTTAGAGAT | CTTGATGCTA | TTATACAAGG | CTTTAGGGAA  | TCAAATTTTG | 24240 |
| TAGTAATTGG | AGCACGGCCC | AGTGTTGGTA | AAACGGCTTT | TGCCCTCAAT  | ATTGCTCACA | 24300 |
| ACATATGTTT | AGAACAAAAT | TTGAGTGTTG | GATGGTTTAC | ATATGAAATG  | ACAAGTAAAA | 24360 |
| CTGTCACTCG | GAGGCTTTTG | TCGATGAATT | CGGGCATAGA | ACATAATAAG  | TTGCTTGACA | 24420 |
| ATATCAGTTC | GCTAAATAAA | AGTGAAGTGG | ACGCTTACCA | TAAATCAGTT  | TCTGAGGTTA | 24480 |
| GTAATTTTTT | TTTTTGGATT | AATAGCGTTT | GGGGTACTGA | CATACATGAG  | TTAGAAGATA | 24540 |
| AAGCTAGACA | AATGAAATTG | AACCACGATG | TAAAAATTAT | CTTTATTGAT  | TACATTAATT | 24600 |
| TGATTCCCGT | GTCACAGAAT | AATATTCCTC | GTTTTGAACA | AGTTGCATTT  | TTGAGTCGTA | 24660 |
| ATATACGTTC | GCTTGCACTT | GAAGTTGGAA | TTCCAATAAT | AGTTGTATCT  | CAAGTTTCCA | 24720 |
| GAAGCGCTGA | GGTTGTAGAA | CCTAGTTTGG | CAAGTTTGGG | AGAATCGGCA  | GCATTACAAT | 24780 |
| GGCATGCAGA | TATTGTAATT | TTTTTACATC | AAGAGAGGAA | AAAACGTAAA  | GGGCGGAATA | 24840 |
| CTTCTAAAGG | TAATAATACA | ACTAAAGTAA | AAGTGATAGT | TGCTAAAAAT  | AGAAACGGTT | 24900 |
| ATATTGGGAT | TGCCAATTTA | GGTTTTACTC | CAAAAACTAT | AAAATTTTCG  | AATTGAAATT | 24960 |
| TAGATTTGTT | AGATTGTTAG | ATTTTGTAAT | TATTCTGTTA | TTTGGCCTTA  | ATTTGTGTTA | 25020 |
| CAATGTATTT | AGTAGGTGAG | TAAATTATGA | AATCATCAGT | AGTGACAACA  | AGTATTACTG | 25080 |
| AAGAGCAAAT | ATATAAAGAG | TTTCTGCGAC | TAGGTATGGA | ACAACTAATA  | GCTCAAGATT | 25140 |
| TATCAAAAAG | ATATTATCAC | AATGAAGTTA | CATATAGAGA | TTTAGAAAAT  | TTAGAAAAGC | 25200 |
| AATTTGGCAT | AAAGTTTGAC | AATCTTGTTA | CTAAGATTGA | TACTGTTAAA  | AGTGAAGTTA | 25260 |
| CTACTAAGAT | TGATAATGTA | GAAAAGAATT | TACAAAAGGA | TATATCCAAC  | TTAGACGTTA | 25320 |
| AGATTGATAC | TGTTAAAAGT | GAAGTTACTA | CTAAGATTGA | TAACGTAGAA  | AAGAATTTAC | 25380 |
| AAAAGGATAT | ATCCAAGTTA | GACGTTAAGA | TTGATACTGT | TAAAAGTGAA  | CTTACTACTA | 25440 |
| AGATTGATAA | CGTAGAAAAG | AATTTAGATA | CTAAGATTGA | TAACGTAGAA  | AAGAATTTAG | 25500 |
| ATACTAAGAT | TGATAACGTA | GAAAAGAATT | TAGATACTAA | GATTGATAAC  | GTAGAAAAGA | 25560 |
| ATTTGCAAAA | AGATATGTTT | AGTTTGGAAC | AAAGGCTAGA | AATAAAGCTG  | GAAGCCAATA | 25620 |
| ACAACTTCT  | TTTGGAAAAG | CTGGAAGCCA | ATAACAACT  | TCTTTTGGA   | AAGCTGGAAG | 25680 |
| CCAATAGCAA | AGTTCTTTTG | GAAAAGCTAG | AAGCCAATAA | CAAAGTTTCT  | TCAGAAAAGC | 25740 |
| TTAAAGTCAG | CAACAGAATA | GTTATTATTG | CAGTAGTAGT | TGTGCCCCACT | GCTATATCTA | 25800 |
| TTCTAACTCC | CTTCATTACG | TCATTAATTA | GCAATTATTT | CAAATAGAAA  | TTGCAAAGAA | 25860 |
| TTCTTTACTT | TAATCAAGAA | AAAAAATTTT | AGATATAATG | CGCTTTTGTA  | ATTTGCAAGT | 25920 |
| ATTTTTGTAG | ATTCCCaGTT | TTTTTAGGTT | AGCATTAATG | TATAGCGTTA  | GAGTATGTAA | 25980 |

ATTTTTGCAA GGTTCCTTTT CAGCAATAAA ATTTGAAATC AAGTTTGTA TAGTAGATTT 26040  
AAGCTCGTTG GAGCTGTTTT TATAATAATT CAGATTGTTT TGATTGAGCT TTAAAGGTGC 26100  
AAATGATTTA ATATAGTTAA GCTTTTGTGA TAGATTTAAT ATGCACGGCG TGTAACTAA 26160  
AAAGATGCTT TGTGAATTAG AGTTGTGCCT AACTTCATTT GGTGTTTCTT TAGACTTTGC 26220  
AATCAAAGAG TAAACAATTC TCAGTTGTTT AGTAGTAATG TCAAAACCAA ATATCTTTTTT 26280  
TGCCACATAA TTAATCTGG TTGTATTAAT AGATATCAAT CTATTTTGT CTAGATTTTC 26340  
AATACATCTG GAAATTTTAT TAGAGCAAAT TAGGGAATGT GTTTGAATTT GTAAACCGCT 26400  
GTCCAATGTA TAAGAAATTG TATCAGATTG GAAATTGTAA GGAGTTTTTA TGTTTTGATT 26460  
TTTCAGATGA GTTAATGGAA TTCCAGCAGC CATAATAATT CCAAGTAAAT GGTGTTTAGT 26520  
GCTAGAAGAA TTAATAAGAT TCTCGCTAAT TAAAATAAAT TCATTCGGAT TTATTTTATA 26580  
AATTTTTTTT TGTTTGGCAA ATTTACCTTT TAAAAAATAA TTGCATAAAA ACATATAAAC 26640  
ATTATATACT TTTTGTAAAG AATTTCAAAA GAAGTTATAA ATTTGTAATT TGGAGATAAG 26700  
ATTTGGTATT CATGAAACAT CTAAATTAAA AATTTGTAAT TTGAGGTTAG TGCCTAGGGT 26760  
TTTTGGTTTA AATGTTAACC CG 26782

(2) INFORMATION FOR SEQ ID NO: 8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

CTATnTACAT CACAGCTTAC CAATGcTATT TAAATAAACT AGAAAGCAAA CCACAATACA 60  
TGATTAAAAAT GATATGGGCA ATAAACTTAA AAAGTTTAAC GATAATTTTG AAATTCCTTAT 120  
TAGAATCTAA TTAAAAATGT AAATTTATAT AAATTTTATA AATAAAGAGT CAAAGAAAAC 180  
GCTTTATACT AGAAAGTCTT TATAAAGATA ATAAAATATA TTTTTTAGAA CTTTCTTCAA 240  
AATATAAATC TTATATAAAG AATATAAAAA AGAAAATAGA ATTTCAAAAT CATTAAATAT 300  
CGAATGATAT TTTTAAAATA TAGTTTGAGG ACAAATAATA ATCGAATGAT TTTTGAAAAT 360  
TAAATTATTT AGATATTTAG ATATGGAAAA AGCCCCCAA GGGGCATCTT TATCTGCGAT 420  
GATAAACCCCT AGGAGAAAGA ATTGCCCTCTA CCCTAAATTA ACAATAGTAC TAAAGTATAG 480  
CACACATAA AAATACTTAA CAAGATTAGA TTGATTCAAA CTAGACTAAG AAAATTTAAC 540

|            |            |             |            |            |             |      |
|------------|------------|-------------|------------|------------|-------------|------|
| AAAGATAATG | TTGAACATGG | AAGTGTTGGC  | CAAGCATATA | GAAATAATTT | AACTTGGAAA  | 600  |
| CATCTTGTTT | CACTACTTGA | AAAAAATGA   | AAATAGCCGT | GTCAATACGA | ATACAGCCCA  | 660  |
| AAATATCTAA | AAACCTACAA | AAATATTAGC  | TGATTATATC | TATTTTTTTC | TTAAGTGAAT  | 720  |
| ATGAATAAAA | AATTCTTTGT | AATTTCTATT  | TAAAAAATTT | AGCAATTAGT | AGCATAACAA  | 780  |
| TATTTGTTAT | GCTAGATATA | GCAATGGGAA  | CTATTATTAC | TGTAATAATA | ATTATTATTC  | 840  |
| TGTTGCTCAC | CTTGAGTTTT | TCCAATAAAA  | ATTGACTATT | AATTTGAACT | TCTTTTTTTAA | 900  |
| GAGCTTGTGC | CAAATTAAAT | ATGTCTTTTT  | GTAAATTCTT | TTCTACAGAA | TCTATCTTAG  | 960  |
| CATCTAAATT | AAATATGTCT | TTTTGTAAAT  | TCTTTTCTAC | AGAATCTATC | TTAGCATCTA  | 1020 |
| AATTAAATAT | GTCTTTTTGT | AAATTCTTTT  | CTACAGAATC | TATCTTAGCA | TCTAAATTAA  | 1080 |
| ATATGTCTTT | TTGTAAATTC | TTTTCTACAG  | AATCTATCTT | AGCATCTAAA | TTAAATATGT  | 1140 |
| CTTTTTGTAA | ATTCTTTTCT | ACAGAATCTA  | TCTTAGCATC | TAAATTAAAT | ATGTCTTTTT  | 1200 |
| GTAAATTCTT | TTCTAAAAAA | GAAATCTCAG  | AAATAAGGTT | CTCGAACCTT | ATACCGAATT  | 1260 |
| GTTTTTCTAA | ATTTTCCAAA | TCTCTATATG  | TAAGCTCATT | GTGATAATAT | CTTTTTGACA  | 1320 |
| AATCTTGAGC | TATTAACGTG | TCCATTCCCTA | GTCGCAGAAA | CTCTCTATAT | ATTTGATCTT  | 1380 |
| CGGTAATATT | TGTCGTTGCC | AAAAC TGCTT | TCATAATTCA | CTCACCTACT | ATATATATAT  | 1440 |
| TTTAACATAA | ATCAAAGCCA | AATATCGGAA  | CATTTCCCTC | AAAATCTCAT | AAAGCAGATA  | 1500 |
| TAATGCACAC | AAACTAAATA | TATTTTCATA  | TTTAATCCCT | CTTTATGAGA | AAAAC TTATT | 1560 |
| CCACTTTATT | AGGACCGCTA | CCCACCTTAA  | ATCCAATTTT | TCTAAAAAAA | TTTATTTTAT  | 1620 |
| TCGTTGATAT | TTTAGTAATT | TATATAATAA  | TAAATTGAAA | TTATTAGATA | AAAAGCTAAA  | 1680 |
| GCTCATAATT | TCAATTTATC | TTGATGATTA  | AAAATTCAAA | ACAAATAAGC | ACTTAAAGAT  | 1740 |
| CTAAGCGCTT | TATATCTAAT | AAAATTTATT  | CTTTTGAAAC | TCTCAATATC | AATGCTTGGT  | 1800 |
| AAACTTTTTA | AACAATCAAA | ATAACCTTGC  | ACATAATATT | ATTGGCTCCA | GAATCATATA  | 1860 |
| CAAAAACTAC | TTTATTCCCT | TCATTGCCAT  | TAAGTTGAGA | CATACACTGA | AGCTTTGCTT  | 1920 |
| TCTTTTTTTT | AAAAAAGTCT | ATCTACTTTA  | ACATCTGACT | CATTAATGCC | TTCTTTGACT  | 1980 |
| TTTTTTGTTG | TAACTTTTTT | TGATTTATCC  | CTACATTTTC | TGCAAGTCTT | AAAAAGATAT  | 2040 |
| CTACTTGCTA | TTTCTTATCT | TTTTGATAAT  | CATCTTCAAA | ATTTTTAGCT | ACATAATTTT  | 2100 |
| ATTTTTGGCT | TTACTTATCA | AATCATTAAC  | AAGATTAATA | TCGCAAAAAA | ACAAAAGAAT  | 2160 |
| AGGGTTAAAT | AGATCCCACT | AAAACACTTT  | TTAAATAACT | CTCATCTTCC | TGAATTATTG  | 2220 |
| AATCACAAAC | AGATTATTTT | CCAAAAGTAT  | TACTATTATT | TTTTTCATAT | AACTTTAAAA  | 2280 |
| TCTACGTATT | GATTTATAAA | TTCTCTGATT  | ATATCAGTTA | CTAGGCTTGT | AAACAAAAAA  | 2340 |

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|--|------|
| GGCCAGCGAA GCATCAAATG CTTGCGCTAA CCTTCTAAGC TGCTTGCCTT AAAGTCCTTA  | 2400 |
| AATTTCTGAT TTAACCTCTA AGAAATGTCA CTTATTTTCC AAGTCTTCCA ATTTAGTTTT  | 2460 |
| TACATTTAAC ACTATCTTAA ATGTCCCCCA CAACTAATGA CAAATTGTAA TTAGACATCA  | 2520 |
| CAATTAAAAG TATCTCTATT TTTTATTTTA TTGCTAATAC CCTGAGAAAG CCTATCTACT  | 2580 |
| ATTTATTTAA ACCATTCAAT TCTCCATTAT TTATTACAAA TTGAAAAGCA CCCGTTATTT  | 2640 |
| TTTATAAACC AATAGCCATA TAATTTAATG TGATTTGTTT CATCTAATGT CTTCTAGTTA  | 2700 |
| TAGGGTTTCT TTCTGCATGG GGGCTGCCTA AGACTTGATA TGCCACCATT ATAACACTTG  | 2760 |
| CAAAAAATCA AGTAAAATTG ACCATAACCA CTCTTCCACA AAAGCAAACA TAAGTGGTAA  | 2820 |
| TTATAAATCT AATAAAATGC AAGCCATTTT TTATTATTAC AAACAGCGTA AAGTGGCTCT  | 2880 |
| TTTAAATTTT AAAAAGTCTT TTTTATTAAT TACCAAAGAT AAGTAAACTT GCAAATAAAA  | 2940 |
| CTACACGTAT TGAAAGTAGA TTTGAAATTT CCATTATATT TATATATAAT GGCATAAAT   | 3000 |
| ATCTGAAAAT GAAGGAGAAG CGGGTGGGCA ATAAAATTTT TTATATTTCA GTGGTTTTAA  | 3060 |
| TTTTAATAGT TGGTTGCGAC TGGGGAACTA TTAAAGATAA AAGTACAGAA ATTTCCAAGC  | 3120 |
| TATTAAGAAC GGACAAAGAT AAGACTAAAA ATCAAGATAG AATAGAATTG GGTGAAGATA  | 3180 |
| ATTTTGTATC TAAAAATAAT ATGTCTACTA CTGATACGGG CATTACTAGT TTAGGAAGTC  | 3240 |
| TAAACAACCTT GGATTTAATT AATCGTTCAC AGCGGGTCAG TGAACCACCT ATAATCTCAA | 3300 |
| ATGAGAAAAGC CATAGCTACT CAAGCAAAAG TAGATTTAAT GAACAACATT AATGTTACTA | 3360 |
| TAATAAACCC AAAACCAGCT CAAAATTTGG GAAATTCTTT AAACAATACT ACTACTGAAG  | 3420 |
| ATAGTGTGAA GTTTTTATCA ATTGAAAACC AAGAGTGGCT TATTAGTAAA AAGATTTTGC  | 3480 |
| CCAGTAAGTT GGAAAATTTA GAAAGCTTTC TAAAAACACA ACACGAAAAA GAAGCTTTTA  | 3540 |
| AGACGGCTAA AACTATACAA AGTCTCATTA GTAATTCCAA TATGGGTAAA GAAATTATTA  | 3600 |
| AGTTTAAGGA AGAATATTAC AAACTTTATA ATTTGTTTGA AGGCATACAA CAAAAATTCC  | 3660 |
| ATAGTCAAAG GAATTCATTT ATAAAAGATA CTAAATTTGG GGAAAATAGA CAAAAAATG   | 3720 |
| CAGTTATATT TAAATCCTTT TCATCTATAG AGAAAGAAAT TAGAGATTTG AATTATAAGT  | 3780 |
| TGmGTGAAAT CCAAAGTAAT TTTCAAATTG CAGATGTTAG CTGGAATAAT GCAAACCTCTC | 3840 |
| TTTTAAAGA ATCTATAGAA AAATTAATTC AGGCAATTGA AAAAAGGTAT GACAATGAGA   | 3900 |
| GTAGAAAGCA AGGTCAAATT GGTGGACCTG CTAATAGATG GGATAAAAAAT CAAGCTGACA | 3960 |
| ATTTTGCTAA GGATGCAAAG TATAAGGCAG AACATTCAGC AAATGATTTG GAAAATGCAG  | 4020 |
| CCAACATTTT TAGATATAGT TGTTCAAATG AAAAGAAGC TAAAAGCTA TTAGAAGAAA    | 4080 |

|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| TTAAAAAAG  | ATTTGTACGA | ATTGGTATTA  | GCCTATAAGT  | AAATTTGAAT | ATTTCAATTT | 4140 |
| TAAGTATTAT | GCATAAATAT | TAGTAATAAC  | CTAATATTAT  | GCATAATATT | CCAATCTGAG | 4200 |
| ATTTCTCTAT | ATATTTTTTA | CTTTCCCAAC  | TTTTATGTAT  | GACCCTTTTG | ATTTCTTTTT | 4260 |
| TATAAAAAAT | ATCTTCTAAG | TAAATTTAAA  | AGTATCGCGT  | AAATAATATT | GTGTAGAAAC | 4320 |
| TATCAAAACC | AAAAAGTCAG | AAACAAGCTT  | TAACACAAAA  | TATCAAACCG | CCTTACCCAA | 4380 |
| CGGACTTTAT | GCACATTTCT | TATCAAATAA  | ATCTAAGTTT  | TTCATCTTTA | CTCTTAACAC | 4440 |
| TATATTCTGA | ATAATAAATC | CTTGCAAAC   | CAACCAAGTA  | TCAATTTTTG | AATAAAGAAT | 4500 |
| ATAAAATTTT | GGATAATGGG | GTTTTAAAGC  | TTATTGATTT  | TAAGAAGAGA | GGCAAGAGCT | 4560 |
| TGCTTAAGAT | AAATTTATCA | ACTTTTTTCAG | AATATAAATA  | CTATCTATAA | ACACAGCCTG | 4620 |
| GAGAGGGATT | AATATTAATC | TAAGCAAAAT  | AAACACAATT  | AAAAGGCGAA | AACTAATATA | 4680 |
| ATTGCTTTAA | ACTTTTTTGT | TTTAATCTTT  | AATTATTTAT  | AAGCTGTCAT | TCAACTATCT | 4740 |
| CATATATAAA | GAAGTGGTAA | TTACTTTTGC  | AAGAAATCTT  | GTGCCTTGGG | TCACTTTAAC | 4800 |
| AACATTAGAA | ATGGATTTTA | TAACATCTTT  | TTTTGCCACT  | GCTTGATCCT | TATTTGATAG | 4860 |
| ACTTAGACTT | AAAAATCATT | AATAATAATA  | TTGACCCTTC  | TTTGGCCCCC | TTAAACCGCT | 4920 |
| TCATCTAGGG | CATCTTCAGA | AGCTATTAAA  | GCTTTTTCAA  | CTTCTTCTAC | TTTAACAAAT | 4980 |
| TCTTTTTTTG | TCAATTCTAA | TTCCCTTATTA | TTTGAGAGATT | TATTTGACAT | TATTTATCTC | 5040 |
| TCTATTAAAG | ATATTGCCTT | ATTCTACAAC  | ATAAACAGCC  | TTTAAAGCTT | GAGCGGCCTT | 5100 |
| TTTAGAAATT | TTAACAACCC | TATTTAATCC  | TTGGCAACAT  | CAAATCTTC  | TTCCCTCCGA | 5160 |
| AAACTTTGCT | ACAATCGCTG | CTTCTTGTTA  | TACAACAACA  | GCTCTCTTGA | TAATAAATGA | 5220 |
| CATCAAAAAC | ATTGAACCTA | CAAACTTTTT  | AACTATATTC  | TTGTCAGTAA | ATTTAATTAA | 5280 |
| CTAAAGAAGT | GATTCTTTAA | CACTCTCCCT  | AATTTACTAA  | GAACACTCTC | TGTTAACTTT | 5340 |
| TTAATAGTAT | CTAAATATGG | ATTAACCCGA  | TATTTTAAAT  | CTACATTTAA | CCATCTTTTT | 5400 |
| TATCTGATTG | TCCTAAAATA | TTAGATTGAA  | ATTGAATAAT  | ATTCACATTA | TTAAAATCTG | 5460 |
| CAAACACATT | TAAATTCACA | AATCCAAACA  | ACAATCCACT  | AATTATTAAA | CATTTTAGAC | 5520 |
| ATTGTAAATT | CTCCTTGTTT | GAAGTATTTT  | ATTTTTAACA  | AAGATTATCA | AACTTAAATT | 5580 |
| TATATTAAAT | GGAAAAAAC  | AGTTCATTTT  | TATAATAGTT  | GAATTTATTA | TTATAAAAAC | 5640 |
| ATATTTTTAT | ATCAAAACAA | TCATTCAAGC  | TTATTAAAT   | TTCTGCATAT | CAAAAACCAA | 5700 |
| TGAACGATCT | CTAAATTAAC | AGAGACAATT  | TTTAATAGAG  | AAAAACTCTC | GCCCCACCTA | 5760 |
| AAAGACAATA | GTTTTACACA | AGCTAACTAT  | TTAATGCTTT  | ACCTGTCATA | TTAATCTAA  | 5820 |
| AAGAAAATAC | TAGATCATCA | ATCCATGTTA  | TAAATGAAGC  | CTTATGCACA | CCAAAAATAT | 5880 |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| CACATTTGCT  | TGTGTTTAA  | ACAAAGTTTT | TTAATAACAA | TAAGAAGAAT | AATAAGAATG  | 5940 |
| CGTTCAAAC   | GTCAAAGTTT | TCAAGCTTGA | AAATAACCAA | ATCTTGTTTT | AGCAAAAATA  | 6000 |
| AAGGTGATGA  | ACTTCATTTG | GTAGGCATTA | CTAGTGCAAG | ACCAAGCAAT | AATATCTAGA  | 6060 |
| GAAAATAAAG  | TCGAGCTCAA | AAATCGTGCT | TTTAGCTTCC | TTATAGAGGA | TACTTTTTTG  | 6120 |
| ACCAATATAC  | TTATTCTCCC | CTTGACAAAA | AAATCAAATG | TAAAGGTGTT | AAAACCTTTAT | 6180 |
| TTTGGTACTT  | ACGTGGAAAA | TACTAAAAAC | AAAGAAGAAG | GCACTTGGGT | GATAAATGAC  | 6240 |
| TAGAATTTTG  | AGAATATCAT | AAAAAATTC  | AAGCCAATAA | TATCAAATTT | TGATTTGGTG  | 6300 |
| CTGGGAATAT  | GGAAAAACA  | GGAAATTATG | TTGACAAGCT | TTAAGAACCT | ATTGTTAAGA  | 6360 |
| ATAAAGAATT  | ATTTGCTATT | TACATCGAAA | GAAACAATGC | TAATAAAAAA | CATTGTCCTT  | 6420 |
| TAAATAAGAA  | CAATAAACT  | CCCATTAGCT | AAAAATAGAT | GATTATCTCA | AAAATTTAGT  | 6480 |
| GAACTGGTGT  | TTAGAAAACA | CTTGTCCTGA | ATTCTTGACC | ACCGAATTTA | CTAAGAAAGA  | 6540 |
| AACACTTACA  | AGAAGAGCCC | TGGTAAAAGC | TTTTTGGAAT | ACCAAAATTT | TGCATTCCAA  | 6600 |
| ATAATAGAAG  | TCTTCCTGAT | AATTATTTTG | TAAAAAATA  | GACATGATAT | TGACAATAGC  | 6660 |
| GATCTTAATT  | TTCAAGGTGA | GTGAATCAGC | AAGATTAGCC | TCATTCATTC | ACTGTAATGT  | 6720 |
| TGGTTGGCAT  | TGATTAACAG | ATACCACTAG | ATTTTTGATC | AACATTATTG | ATCTTGATGA  | 6780 |
| TCACATGAGT  | AACAAACATT | TATTTATAGA | TTTATAGTAT | ACAGATTGCA | AAGAAAAAAA  | 6840 |
| AAGACCTAAA  | AACACCTGCT | GCTTATGTTT | TTACAGATAT | GATATTTAGA | AGAAAAGTTG  | 6900 |
| ATGACGATTT  | TCAAATTCOA | CTGAAAAAAA | CTCTCTTTTG | ACAGTCAGGT | TTTAAACAAT  | 6960 |
| TTTAAACAACA | AGCTTTGCTT | AAACTGTTTG | TCAATAAAAT | ATTTGAATTT | TTAAACAAAA  | 7020 |
| ATACACCAAG  | CAACAAGTTT | ACATGTATTT | AGAATGTTTT | TTTTGCAGTC | TTTAAATGA   | 7080 |
| ATAAAGCTGG  | CAACCCGGCA | TAAGACATTA | TGAACACTA  | TTTCTAAAAT | TAAAAATTAT  | 7140 |
| AAAAATAAAT  | TCTTAATTTA | TCCTGTGATA | GCCTTTTAGA | TCCTTTTTCA | AATTTTAAAT  | 7200 |
| TTACTATGTT  | AACTATAAAC | ACTTTTGAAA | AAGGTCTTTG | GCTTTTTCCT | ATAGTCTTTT  | 7260 |
| TATTTTATTT  | TAAACCACTA | TTTCTATAAT | CTTTGACTTA | AAACTGTGAT | TAGCTAAAAA  | 7320 |
| TAATAAAATA  | TTTAGTTAGG | TATTGAAATT | AATCAAATAT | TTTGAATATA | ATTAAAGCAA  | 7380 |
| TTATTGATAA  | AAATACACTG | AACATGGAGA | TTAAAAATGA | AACCAGCCAT | ATCTAATCAT  | 7440 |
| AACCACCAAA  | CCAATAAAAA | TAAACTACTT | GGTAAAATCT | GTAGACTGAA | AAAAATTATT  | 7500 |
| TCAGTAATCA  | ATTACTTAAA | TAAAGAATTT | AAAAAAAAT  | ATAATACCTC | AATTAATAAA  | 7560 |
| GAACACTTTA  | CTTCTAAAAA | AGTAAAAGAA | CTTCGAGTTC | ATCATCAAGG | AGATATCCTT  | 7620 |

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|--|------|
| CGCGTACTAA ACTCAAATAT ACATAGAGAA AACAAAAAAG AAACCACAAT TAATACTCTA  | 7680 |
| AGACTAGATT TAAAATTTTT GGTAAAGCTA AAAGCATTAG AAAAAAGAAT ACTAACATTT  | 7740 |
| TCAAATAGCT TCGGAGAATT TAAAGGAAAG CTTTGTATAT ATAAAGTGTC GCCTATTGCA  | 7800 |
| TATAAATTGA TTAATGCATA TTTTAATAAC ACTAAAATAG ACTTACTTAA AAAAGTAAAG  | 7860 |
| GAAGAGAAAG AATCTTTTAA GCCTAAAAAT ATCACTGAAA ATATCACTGT ATATAATAAA  | 7920 |
| CAATATATAA ATATATATAA TAAGAATTCT ATAGAAAACCT CTTTCTTTAA AAGAATTAAA | 7980 |
| TCAATAATTT TCAATGCAAA AGAACCAACT AAATCATTAA AAAATACTTT ATTAAACTAT  | 8040 |
| AAAGATTTTA AAAATTATCT AAAATATGAT TATGAGACAA AAGATATTAA AGAGTTTTTC  | 8100 |
| TTATCTAAGC TAAGTCTTTA TAAACATAAA ATTCACTTTA TGAGGAAAAC CGCACCCCTAT | 8160 |
| AAAAC TGATT TTTACACTCT TGCAGGAGAA TTAAAGATA CTTATACTAC TAAATGGAAG  | 8220 |
| GTAAATAAAA TAACTAGCTT TTCAGGACAT GCTAGGATAA TAGCCAATAA TATTCTGGTT  | 8280 |
| AACACTTTAA AAAAAGGATT AAAATTTGAG TAAATTACTT GAAAACTAA AACAAAAAA    | 8340 |
| AACTTTAATG AAAATTGACA ATATTTTAAT TAAAAAGAT ATTTT TAGCA AAATAGAAGA  | 8400 |
| AATAGATGGA AAAAAAGTAT ACTATACGAA AATATTTAAA CATTTAATTG ATTTTAAAGT  | 8460 |
| TACTAACAAA GAACAAAGAT TAAGACTTGT ATTCCAAGAA TTTAATAATA ACAATAAGA   | 8520 |
| TTATTATTTT TTAAATCTTT TTTCATTGGG AAAAAATGAT AAATTTTGG GAATAAAATA   | 8580 |
| TGGATGGGAT TACCTTGAAA AACCTTCTT TCTTAAAAAA GAAGACAATA AAATTTATGC   | 8640 |
| AATAAAGAAA CTCTATTATA TAGAGTTTAG GTTTAAAAAA GGATCCGTCA AGTCTTACAT  | 8700 |
| ATTATCTTTA AGAACTTTGT TGAGAAAAAA TGAAAAAGAA AGCACTGAGT ATTATCAGTT  | 8760 |
| TACGCTAAAT CATCTAGAAA AAATGGAAAG TAAAGTATAC AAATTTTACA ATAAAAAATC  | 8820 |
| ACCGGATGGA GGAATTTTAA AAAAATGGAT ATTAAAAAAT CAGATATTAT AACAAATGGCT | 8880 |
| TCAATTAAGG GAGGAGTCGG AAAAAGTGTG CTTTCTATAC TTTTCTCTTA TGTATTAAAG  | 8940 |
| GAATTGGGCA AAAAGGTGCT TCTAATTGAT TTAGATCCAC AAAATTCCTT AACTTCTTAT  | 9000 |
| TTTAATAGAT ATATTTCAAA TATTGAAAAA TATAATACAT ATAGTATGTT AAAAGGAGAT  | 9060 |
| TTCCATTTTA ATGAATGCAT TAAAAAATT GATGATTATA TATCTATAAT CCCCTCTCAC   | 9120 |
| CCCATTTTGG GAAAATTTAA TTCGGAAGCC ATTGATTACA AAGAAGTTAT TTTAGAACAT  | 9180 |
| CATTTAAATG AAAATATGCA AAACATAAT TTTGATTATG TTTTATTAGA TACTCCTCCT   | 9240 |
| AGTTTAGATT TTCTTTTAAA GAATGCCTTG AATGTTGCGG ATTATATTGT GATTCCAGTT  | 9300 |
| CAGGTAGAAA TATGGTCAAT AGAAAGTTTT ACTATTTTGA TTAACGCAGT TAATGATATT  | 9360 |
| ACAAAATTTA GAAAGAAAAT ATATAATATT TCTATTGTGG AAAACCAGTT TATAAAAAAT  | 9420 |



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| AGAAACACGA TAAAAGAAGT GGAGGACTTG CTTTATAAAG AATATAGAGA ATATATTAAA  | 9480  |
| GGCAAGATCC ATTTTTCAAA TAGTATAAAA GTTCTTATAA ATGGACGATT AGAGCCCTCT  | 9540  |
| AAAAAAGAAA TGTATTATAG AGAAATAAAA GATACTTTAA AAAATATTTT TTCTTTATAG  | 9600  |
| TTGGCATT TT TACTAACTAT AAAGGTACTT ATTTAGGGTT GTCCGATATC GGACAGATAA | 9660  |
| TTTTACTAAA AATTATCTAA AAATAGGAGA TAAAAATGAA GAAAAAGAC AATAAAAAGC   | 9720  |
| AGGTAAC TTT ATATAAAAGG GTTGAAATCT CAACAGGCAA AGAATTAAGT TTAGGCAATA | 9780  |
| ATCAAGATAA GGAATTGAGA AATTACAATG AGTTAAAAGA GCAGTTGAAA TTAAATTTAA  | 9840  |
| AATCCGATAT TAATAATAAA ATTCAAAGAA TGAAAATTTT ATATGAAATT AAGCAAAAAG  | 9900  |
| AACTTTTATA GTATGATGGC TTCAAAAGTT TTAAACAGTT TATAGAATCT TATATAATTG  | 9960  |
| CTAGAAGCCA AGCTTATATG TATTTGAAAA TTTATGAGAA AGTTTTAGAA GGGATTATTT  | 10020 |
| CTATTGAAAA AGTTAAAGAA ATGGGTTTTG TAGCTACATA TAAAAATATA CTAAAAATA   | 10080 |
| GCTTGTCAGA GATATATAAA GAAAATATGG TTAAAGAAAA CCCAGAAGAA GGTGTTGGCA  | 10140 |
| CCCCAAATAA ATCTATTAGA ATTTTAATGA AAGATGAAAA AGTTTATGAT TTTTGCAAAA  | 10200 |
| AAGATATCAA AAGAATCTAC TTTATTTTAG AGAAGCTAAT TAAAGATAAA AAAAATATCT  | 10260 |
| TATCAGATCT TATAATTGAG TATGAAAATT ATAAAAAGA TAAAAAGATA AAAGTGAGCT   | 10320 |
| CTTGATTAAA ATTGTATAAT ATATTATAAT CAACTAGGT TAGAGAGCTT TTCTCTCTCC   | 10380 |
| GTGTTGAGTA GTAAAATATT TGCCCATAGG GGGCTTTTTT TGTGCCTACT ATATATTAAA  | 10440 |
| AAAATAATAA AGTATTTTCT ACTTACAATT TCTATAAAAT TTAGGTAGAT ATAAATTCAA  | 10500 |
| AACAAAAGAT TGTTAAAGTA TTCTCACGAG ATTAATCTTT TATTAAGCAT TTATGCTTTT  | 10560 |
| CTCATTAAT CTGATCAACC TTTTATCAGA TTTAATTTTT AGGGTTTAGT AGAATTTTTA   | 10620 |
| TCAACAATAA TTCTTTCATA AATTTTATTA TTTTATCAA ATTTTAATTC AAGTAGCCTT   | 10680 |
| TCAACTTTAA TGGCGATCTC TTATGTCGCA GAAAATAAAA ATTTTAATGT TAATAAATTG  | 10740 |
| TATTTTTTAT ATTGATAAAA ATACACAGAA ACACGTAACA GATTTCAGA TAAAAAGGAA   | 10800 |
| AAATAAATCG CGTTATTTTT GATTTTTGAA ATCCGAATTT TAGTTTTTGG TCAAAACGGG  | 10860 |
| TAATATCATA TTTTATTTAA AAATAAGCTT AATAAAATCT ATAGAAATAA AATAAGATTA  | 10920 |
| CTTTAAGCAC ATAATAATAT CTATCTTTAT CTCAATAGCA TTGTTGAGAT TTAAAAACC   | 10980 |
| ATTTATTTTT GTATTTATTT TAATTTTTTT ACTCTTAATT TAATAAAATC AAACCTCAAA  | 11040 |
| TTTTGGATTT TTACGCAACT TTTTACTAT CCTAAGTTTA TTAAGCAAAA AAATATTAAC   | 11100 |
| TTTATAAAGT TAATCTCAAT AAATTTATTC TAATTAGTAA ACATTTTACC AATTACTCTA  | 11160 |

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| GCATCATTTTA CTAATGACTT AGAATTATTA TGGTTTACAA TATCTACGGG CTATCTTCTG | 11220 |
| CAAACAAAAT TCAGGCTTAC AAATAAATAC TCTTCGAAAG TAATTTTACA CTTCAGCAGG  | 11280 |
| CTACTTAAGC TTAAAAATAC GCCCTGAAAT CACCTTAAAT TCTTGTTAAT AATTTTCATAT | 11340 |
| TTTGAGCAAT CTTTCACAAG TTCTTTGATT TCGAAAGAAT TGTAATTATT AGATCTTTAA  | 11400 |
| ATTTGAAATC AAAGAATTTT TATACGAATG AATTGATTTG TTTACATGAA ATCCTAGATT  | 11460 |
| TTTAAATTTT TTAAGAATAT TGATTGATGC TAATTTAATT ATATTTGAAT TTCTTTTTTG  | 11520 |
| TTTTTTTGGA AAAGATGCGT TGACCATTAT TAAGATTTTT TCTTTGAAAT GAATAGTTTT  | 11580 |
| TGTGCGCTGT TTGAATAGCA TTAAACTCTT AAAAAATGTA TCAAGCAGCT AAAGTCTTAT  | 11640 |
| ATTTTTATTT TTTGCAGTTC TCTTTCTCCG CATTACCTA TGAAATAATA TAATAATAAA   | 11700 |
| TACAATATTA TGTAAAGTAT ATATTTTCAGC ATCATCTATA AAAATAATTT TAGGAAAGCT | 11760 |
| TGTTTTCAAT GATTCGTCAA ATTTAGTTTT ATAGATATTT GAGCAAGGAA TTATTTAGAT  | 11820 |
| ATAACGATGC TTGAAAATAT AAAAAAGAAA ACCCAAAATA CAAATTTATA AATTTTATAA  | 11880 |
| ATACCTTATT TTTAATGTCA TTAAGAATGG ATTGCTTTTA TTATCTTTTT GTTACTTCTA  | 11940 |
| AAATATCAAC AGCAGATGTT ATTTTAAATA GTTATATTTT TGCACCTTGT GAAAAGCAGA  | 12000 |
| TGTAAACAAG TGTTTTTCTA GAGTAAATTT TTTATGATAA GGGGGTACTG CTACACTATG  | 12060 |
| TGATGTTGGT GTATGAATTT GTGTGAACCG CTATTTAAAA TTAAATAATA AGCTTTTATA  | 12120 |
| AAGTTAAGTA ATAATTACAG CATTAAAGAT AGATTATTGC CTTGCTATAA AGAATACATA  | 12180 |
| AAGCATTTAT ATGGTTTAAT TTCAATAATG CAGTACACCA GCAAATAAAT ACAATATTAA  | 12240 |
| ATTGTATTTA TTAAAAATCA TATTATATTG ATATTAGATT GATATATTCA ATTTTAATAT  | 12300 |
| ATTGTATTAC ATAATATTAT AGGATATAAA ATAATACAAT GTAAAATTTT AAGTAAGGAG  | 12360 |
| AATATTTATG AAATATAATA CGATTATAAG CATATTTGTT TGTTTGTTTT TAACTGCTTG  | 12420 |
| CAATCCAGAT TTTAACACAA ATAAGAAAAG AACTCTAAGT AAGGGGATAA TTTCAAATCA  | 12480 |
| AGATGCAGAT TCTGATAAAA TAATAAAAAA TAAATTACTT GATGATTTAA TAAATTTAAT  | 12540 |
| AGAAAAAGCG AATGCAGATA GAGAAAAATA TGTAATAAAA ATGGAAGAAG AACCTTCGGA  | 12600 |
| TCAATATGGA ATGTTGGCTG TTTTGGAGG TATGTATTGG GCAGAATCAC CACGGGAATT   | 12660 |
| AATATCTGAT ACAGGTAGTG AGAGATCTAT TAGGTATAGA AGGCGTGTTT ATAGTATTTT  | 12720 |
| ATTAAATGCT ATTGAACTA ATGAATTAAG GAAATTTTCA GAAATTAGAA TACTGTCAAT   | 12780 |
| AAAAGTACTA GAAATATTTA GCCTATTTAA TCTATTTGGA AGTACTCTTG ATGATGTGGT  | 12840 |
| TGTTCACTTA TATTCCAAAA AAGATACTCT AGGTAACTA GATATTTCAA ATTTAAAAAG   | 12900 |
| ACTTAAAAAT TTGTTTGAAA AATTATTATC TATAAAAAACA ATCGTTTCAA AGATGTCAAA | 12960 |

|            |            |            |            |            |            |       |
|------------|------------|------------|------------|------------|------------|-------|
| ACGTCTTTTA | TTGGATTATC | AAAATAATGA | AAATTTTATA | AAAACAGATA | ACGCCAAGCT | 13020 |
| TGGATCTTAT | GTGGTTGCAC | TTTCCAATCA | AATTCAAGAA | AAATATAATG | AAGCAGAAAG | 13080 |
| GCTGAAAAGC | GAGATAATTT | TAATATATAC | CCTTTAAAGG | GTATATATAT | CCACTTTCTG | 13140 |
| AGTCAATATT | GGCATCCTTT | CTCTCGGCAG | CAGAACTAAA | TGCTTCACCA | CCACCAACGC | 13200 |
| TCTCCTAATA | TCAGTTAGTA | TCAATTGGAT | TATTATCGGC | ATCATTTAGC | ACACCATTAT | 13260 |
| CATCTTTATC | AGCATCCACA | ATAATCACAT | TTAATATCTA | CTCACTACTA | ACCTTGGTGG | 13320 |
| CATCATCAGT | CAAGTTTTGC | ATTTACAATT | TTTATAGATT | TAAATAAATA | ACCTTATTAC | 13380 |
| ATTTTGAATT | ACATGGTAAC | AAAATTAAAA | AAGATCATGA | ATATAAAGAA | ATAAAAGCTA | 13440 |
| AGACAGGCCC | CGTATGAGGT | TAAATTTATG | TATTTTATTT | AATAAATTAT | TTTCAACATA | 13500 |
| TTTTGTATTA | TTATTTGTAA | TAATAGATAT | ACTATAGTAT | GTTATGAATA | AAAAGTTTTT | 13560 |
| ATAAGAGGAT | AAATAATGAA | TTTGTTTAAA | ATTGAAGCTA | ATTATATTGA | TATCCTTAAT | 13620 |
| AAGGAAATTT | ATCTAGCTAG | TATAACGATT | GCAAATGGTC | ATATTGTGAG | CATGACAAAA | 13680 |
| ATTAATGCAA | TATTAGATGA | GTATATATTG | CCAGGATTTA | TTGATGCACA | TATACATATA | 13740 |
| GAACGTTCTT | TTTTTATTCC | ATCAAACTTT | ACGCATTTGG | TAGTTCAACA | TAGCACTGTG | 13800 |
| GCGACAATTA | GCGATCCTCA | TGAAATAGTA | AATGTTTTTT | TCCGCATTTA | AAAAAGGCAG | 13860 |
| TAAAGGATTG | AAAAATCTAA | TCAAGAAAGT | TATAGAAAGA | GTATGAAAGG | TTTTTTATTG | 13920 |
| TTAAATTAAT | TAGGAGCTAT | TAATTATATG | TCTAAGGAAG | GTTTAAGGTT | TATTGCTATA | 13980 |
| ATGGAATAAG | GAATTAAGGT | GGTTGGGGGC | AACTGTCCCG | AAGTAAAGCT | TGTAGATTAT | 14040 |
| GCCCCGGCAG | ATGTCTTCCG | GGTTTAAAAA | ATCTAAAAAG | TTTTCATTAG | ATAAAGTAAG | 14100 |
| AAGTTATTTT | TATTAATTTT | TGATTTAGAA | ATATTAGTTT | ATTAAAATAT | TTAGACGCAA | 14160 |
| GCACTGCATT | TCTAATTTCC | TCGTCAAAAT | CACCTACTAT | TTTCTTATTT | GAAAGTTTTT | 14220 |
| CTTTAAGTAA | CGCAACAAGG | TATTCCCAAA | TTATCTCTTT | ATGGAATACT | ACAAGCTTCA | 14280 |
| TGTTTTATAT | ATAATGAGCA | GCACTTCCTT | TTAGTTCAAG | TTCGTTAAGC | ATTTTCAAAT | 14340 |
| CATACTGCAC | AGTGCACATA | CAAGCAGCCC | TTTTGCTATC | TTTTTTAAAA | GTATGAGTGG | 14400 |
| CCCCTCCTAT | TCTGTAAATA | TCGCAAGCCT | AATAACGCAC | AATCCCACAT | GTTTTTTGTA | 14460 |
| ATTTTGATTT | TTAGTGCTAA | TTGTCCAATA | TATAGACTTA | TATTATTATT | TTATTTTAAA | 14520 |
| GTTTTTATTT | AAGGCAGGTC | TCTCTGTTCT | TTAATATAGT | GAACATTAAT | TCATTTTTTT | 14580 |
| ATCTAAAAAT | TTTAACAATA | TTTTGTTCTA | TATATTTTTT | TTTACAAAAA | CGATTTAAAA | 14640 |
| TTATCAATTA | CCTAACATGG | CATTGACTAT | ATTAGGAATT | TACAAACTAA | TTTTTTAGTT | 14700 |

|             |            |            |             |             |             |       |
|-------------|------------|------------|-------------|-------------|-------------|-------|
| GTTAATCTAT  | ATTTTATTTA | TTTTTTAGAT | ATGCTGCTTT  | GGAAGTGTG   | ACAATGTCTA  | 14760 |
| CGTTAATTAT  | CCTAGTTCCA | TTATTGGGAG | TAAATTCTAG  | TAATAAATGA  | ATATGATCTT  | 14820 |
| TATCGTGGCT  | GAATTCATTA | AGGGCTATTT | TCTACAAAAG  | CATATATTAA  | GCACTATTTG  | 14880 |
| GTTTGGTAAA  | GAAAAAATGA | ACGCTCACTA | TTTATGCATC  | TTAACCTATA  | ATTCATAGA   | 14940 |
| AATGGATGGG  | CGATAAAATA | TAATTAAATA | ATACTTAAGC  | CCCGCAAGAT  | CTTGAATTAA  | 15000 |
| ATTATTATAT  | TTATCTTTTA | TAACACTTAA | ATTACCAGGT  | TTTGTCCTATA | TGACATAGCC  | 15060 |
| TCCTCCTACA  | ATTTTCAAGC | CTCTCCTTCT | TTTATTTGGT  | TTAAACCAGA  | TTCTTCATCT  | 15120 |
| CAACAAAATA  | AATATTGTTA | TTATCTTCTT | AAAGGCTCTC  | TTAATGTAGC  | TTAAAGCCCA  | 15180 |
| AAATTCAACT  | TAATAATTTG | AAGAAAATAT | AGGGTTAAAA  | GCTTAAGTCA  | ATTTCTGAAG  | 15240 |
| GATCAAGTGT  | TAATTTTAAG | AAAAATAGAG | CTGGTTTCCC  | TAAAATTAGA  | TTAAAAGAAT  | 15300 |
| CTTTAAAAGG  | GTTGAAATAT | ATTAATTAAA | ATAGCATAAT  | GATTTATGCT  | ATTTTAACCA  | 15360 |
| CCATTTTAGT  | TGCTTTGCAA | GTTAAAAGGC | GGTAGTATGT  | GTTGATGTGG  | TTTAATTACG  | 15420 |
| GCTATACTAT  | ATAAATGCTA | CTACTAATTT | TTTATATAAT  | CTTCCAATAT  | TCTTTTTTTAT | 15480 |
| CATTTTGAAT  | GAAGTTATTT | AAATATAAAT | ATTTATAGGA  | TTTATTGTTT  | TATCATTATA  | 15540 |
| AGGGTATACT  | AGTCCTAACT | ATGCTAATAA | TTGTCCTACG  | TGCTGATTTT  | GTTAAGGTTT  | 15600 |
| TCGTTGTTAT  | GCCATACAAA | CTTCATCTGA | ACTTGTAAT   | TTAATAGCAC  | TCACTATCTT  | 15660 |
| TTAATTTTTTC | TTTTTTTATA | TTTTTAAGAA | TTCTTCCAGC  | GTCTTTTATT  | CTAGAAGAAA  | 15720 |
| CTCTTGGTTA  | TATTTATACA | GTTATTTGCT | CAAATATCCA  | TAGAACTAAA  | TTTTGCGAGT  | 15780 |
| TCTTAAAAAT  | AAATTTTCCT | AAAATTATTT | TTGTAGATAA  | TACTGAAATA  | TTTGAAATGC  | 15840 |
| TCAATAAATT  | CGGAACAGAA | CTTATTAATT | CTCATTTACT  | AAAAGTTATT  | TCAAATTAGA  | 15900 |
| CAATAATATT  | GAAAAACGTT | TTTTAACCTT | GGATAAAGAT  | AAAAAACAAA  | ATAAAATTAT  | 15960 |
| AGAAAAAATT  | TTTTACAAAG | AAAAAACAAA | TGAGCTTTAC  | CATAGCTTTT  | GACATTTTAT  | 16020 |
| ATTACAAGAG  | CTGCTTGAAC | TAAATTTTTG | GACTTGTTTC  | TTTTACAGAA  | GATCCTATAA  | 16080 |
| TATCTTGAAA  | TATTCTATAA | ATTATTTACA | ACTTTAAAGT  | TTTAGAATCT  | TTAAGACAAT  | 16140 |
| AACCATAAAA  | AATCTATTCA | TAAGTATCCC | ATTTTACAG   | CAATATACCT  | TGAAGTGTG   | 16200 |
| AAAAGCTTTA  | ACTATCGATT | TTTTTAATAT | CTTAGCACAA  | ATCTATGTAC  | TATTACTAAT  | 16260 |
| ATAAGAGAGT  | CTTCTTTTAA | AGAAGACTCT | AATTTTAAAT  | ATTAATATAT  | TTATATATTT  | 16320 |
| TTTTTCCATT  | TTAAGACTTA | CTTAAAGCAT | TTTTTGCCCTG | TTCAACAAC   | TCTTTTATAA  | 16380 |
| AGCTTCTTCT  | TCCTATTGCC | TCACCTTTTT | TAGAAGAATA  | ATTTTCTAAG  | CACCTTAAAG  | 16440 |
| CATCCTCTGC  | TCTATTTAAA | GCCTTTTTAG | ATAATTGTGA  | TGCTGCCCTA  | TTTTTACTTT  | 16500 |

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|-------------|------------|-------------|------------|------------|-------------|-------|
| TTTCCAATCT  | TTTAATAATA | CCTTCTTTTA  | AGCTTTCCTT | AGCTTCATCA | AAAAAGAAAG  | 16560 |
| CGGCAGATCT  | TATCTCTTGT | TCTGCAGTAT  | CAATGCAACC | CATAATTTTA | TCAAGTTCGT  | 16620 |
| CTCCTATCTT  | TAAATTATTT | TGCAATTGTA  | CTAGTTCCTT | TATTTTATTT | CTATTATTAT  | 16680 |
| GAGAATTTTT  | CATTAGTGAT | ATTTTTTTAT  | TCTGAATCTT | AGTTATCACA | TCATAAAAAAT | 16740 |
| CACTTCTTAT  | TAAAGTATAT | TCATGTTTAA  | GTGAGCACAC | ATTCTCAATT | AACTCGGGAA  | 16800 |
| ATCCAGATTC  | TCCAATAAGA | TTCTCTATAT  | CTTTAATTGC | TTTATCCGCT | TGCTTTTCTT  | 16860 |
| CCTCAGTAGA  | AGGGAAAAAA | TCCTCTTCTT  | TTATCTCTTT | TTTTTGATTA | TGCTCAATTG  | 16920 |
| AAATGGTTGG  | TATACCAATC | CTATTATTAG  | ATTCTCCTAA | AGACACCGCA | GATTCTACGG  | 16980 |
| AGGGCGCCAC  | TACAGGTTCT | AAGGGGAGGG  | TGGTCACGTC | TAAACCCTTG | TCTTTCAATT  | 17040 |
| TTTCCGAATT  | TTTAATAAAA | TCTTTTTTTT  | CTTTTTTATT | TCCATATAAA | TTATTAATAG  | 17100 |
| CATTTTCTTG  | AACGCCATTT | AAAGCTTCTT  | TTATATCATT | GTTATTTTTT | TGTTCTCTTT  | 17160 |
| TATTACCAGA  | TAATTTAGAA | TTTAGATTAC  | AAGACATCAA | TCCTATCGTT | AACAATGTAT  | 17220 |
| ATAAAAACAT  | TTTTTTTTTC | ATAAAAATAC  | TCTCCTTTCC | CTTAATCAAG | AATATATATT  | 17280 |
| ACAAATAATT  | ATTCTTAATT | AATACTAATT  | ATTAATTAAG | ATTATATATC | ATTTTGTTTG  | 17340 |
| AATTTCAATA  | AAATATAAAT | AAAATTAATT  | ATATTTTATA | CTTTTTTGCT | TATTAATCAT  | 17400 |
| TTGGAGAATA  | TATGATAATC | TCTGAAC TAC | TATTTTGCTT | TAAGAAGAAA | TTAATAAATT  | 17460 |
| GTTTAAAAC T | AGAAAAATTT | TCATATTTAT  | AAATTTTTTT | GCTTAATTTT | ATATAGAATT  | 17520 |
| CATCTTTTGA  | ATTTTATTAT | TAATATTGGA  | CTAAAGCTTG | ATAAAAAAAT | AATATCAAAT  | 17580 |
| CAAAAATTTT  | AGATCCTATA | CCTGTAATAT  | TAAGAAATCC | TTTTTATGAT | GTAAAAATTAA | 17640 |
| AAAACAATAA  | TTTGAATATA | TTAGATTTAG  | CTAATGACTA | TAAAAAAATA | AAAAATGAAT  | 17700 |
| TAATAAAGAA  | AAAAAGTTTA | ACAATGCTGA  | ATTTTATTTA | TATTTTAACC | CATTAAACTT  | 17760 |
| TATAAAGGAT  | TTATCAAAAT | CAATTTTTAG  | CTTCTAATA  | TTATTTTTAT | TAATAATAAT  | 17820 |
| TCTTTAATGA  | ATTCTCTTAT | TTTGCCCAAA  | TTTAATTCA  | AAAAGCTTTC | CAGTTTTAAT  | 17880 |
| AATAATCTTT  | TCTGGAAGCA | GAAGAGAAAA  | GTTCTAATGT | TAATAAATTG | TATCTTTTAA  | 17940 |
| CAAACCCTAT  | TTTAGGTAGT | TTTATATAAC  | CATTTTCTAT | TCTTATTGAG | TTTTTTTGAT  | 18000 |
| TATTAGTTCT  | ATAAGTTTGC | CTATTTTTCT  | TACTTTTATA | CTTAGGAAAT | CCTTGCACTC  | 18060 |
| TATTTCCCTT  | TTTAATTTCT | CTAAAAAAAT  | TACTATACGC | AAAATTTAAG | TCGATCCACG  | 18120 |
| CGCTACAAAG  | AGCCAAACTA | TCAACTTCCT  | TTAAAAAAGG | AAATTCCTCT | TTATATTTAC  | 18180 |
| TTGGATAGGT  | AATAAGATTT | TGTCTATTAT  | TTTATAATA  | ATCTTCTTTA | TCACTTAACA  | 18240 |

TTTTGTTATA CAAAAATCTT ACACATCCAA ATACTTTTGA AAAATATTTT TTTTGATTGG 18300  
TGTTGGGATA TATTCTGCAC TTATAAGCTT TATTAGCATT CATTATTTTT TATAATTAT 18359

(2) INFORMATION FOR SEQ ID NO: 9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14752 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

GCAGGTCGAC TCTAGAGGAT CCCCTTACTT ATAATAGCTA TATACTACGA AATATACAAA 60  
AGAAAAATAT ATAAATGCCG TTTATATAAA ATTACTTGGA TTAGAAAAAC AGGGAAAAAT 120  
ATTTCCCTATA AACCATCAAA AAATATAAAA ACTTTCAAAA AGTATGAGGG AAAAAGTATT 180  
AATTTACATC CCCCCAAAAG AAAAAATTTG AAAATATTTT ATAACACCAA ACTTTTAAAA 240  
AGTAACAACC CTAACAAATA TTTTCTCAAG TGCAATCTAT TAAAATTGGT CAAAATGCCA 300  
TAACGTTTGA AGAGCTTGCA ATCAAATATA TAAAAATCCA ATAATATTGC CTAGCAAATC 360  
TTATTATTTT AAAATTTTAA AAAACAAAT CCTAACTATG TCTTAAATCT GGATCAATAT 420  
AATTTATTTA AAACATTAAA TAAAGATTAT ATAGATAATA TACTTATTAT TTTTAATTCA 480  
AAGCCTAGAA GAGAAAAAAA GAATGCCCAT TAAATGTAAC AAGATAAGTA AAAAAGAGGA 540  
AACAAAAAAA TTTTTTGTGT GGAAATTTTT CAAAAAATA ACATAGTTAA AAAGGCATTT 600  
AAAAACACTC TCAAATATTA AAATTATAAC ATGCATTTAT ATAAATGCTA CAGAACTATC 660  
GATAAACAAA AATGGAATTT TTTAAAAATT GAGATAGACT AAAATTGAAG GAGAATTAAA 720  
ATTTTATGA CAGCAATAAT CGTGTATTCA TGCTTGACTA TGTGTGTAAT ATATTTTCAC 780  
TTGCAACTAA AAACATTTTT CACAAAATTA ATCAGATTTT GTAAAAAATG TTTTGATATT 840  
TTTTTATTAT TAATAGAAAT GTTAAAATTA ATTTTTTATC TATTAATTAT TAATAATAAG 900  
TTTTATATAT TTATTATAAT ATCAATAGCT TTAATTACAA TCAATACAAT GATTTAACCT 960  
ATTGTATTGA TTGTAATTAA GCCAAATGTA TCCAACAAGC TAACTACTAT TTCTAAATCA 1020  
AAGATCATTA AAATAACTTA TTGCTTCATC TCATATGATA ACTTTTTTAA TTATTTTTTA 1080  
TTAAGACCGG CCATCCGCCA AAACATAATC CCCC AACCT TACTTTAGGA AGTTCTTACC 1140  
TTGGTTTTTT ATTTCTTTAT AAAAAGAAAG TCTTAAGATT TAAAATTGCA TTTAAATCTC 1200  
TATCATACAT ATTGAACTT TACTAAAACA TTCCTTTTTG TATAAAATTA ATTGATTAAA 1260  
TTCCCTATCA TTATGTTTTT ATAATTGACT AAAAAGTAAT AAGACAATTT ACATAAAAAG 1320

TCTTTTCTTT GAATTTAATT TAAACTTTTC TTATACAAAT TAGCAACCCT TAATCTAGAT 1380  
TTAGCTCTAT TAATAGCGCC CTTTGTCTTT TTAATAGTTT TCTTCCAGTA TTTTAAAGTT 1440  
TACTTTTATT TTTTATAAAT ATTTAGAATG ATTGTTTTTT TACTTTCACG ACTCTTTTTT 1500  
ATTATTTTTT TTATTGTTAT TTTTAATATT TAAGCTCTCA ACTACTACTG AAATATAATA 1560  
TTTATTATCG GTATTTTTTC TACTACTAAA TTTTAAATAA CTTTATTATT ATAATGATCC 1620  
TATGTAGACA TAACTTTACA AATCCTATTT TAGATAAGCT TTATATTCAT TTTCTATTCT 1680  
TATTGGGTTT TTCATTTTAT ATTTAGGAAA TCCTTACGTT TTGCTTCCCT TTTTAAATTTA 1740  
TCTAAAAAAT TATTATCTGC GAGGCTTTAA TCAATCCATG CACAAAAAAG AGTTAAAGTA 1800  
TTAATCTCCT TTAAGAGTGA AAATTTATTT TTATATTTGC CTAGATTAAT GCTAAAACCT 1860  
TTCTTGTTTT TTTATAAGAA TCTTTCCTAT CACTTAACAT TTTGTCATAC AAAAATCTTA 1920  
CAAATCTAAA TACTTTTAAA AATTTTTTTG ATTAGTGTTA GAATATATTC TGTTTTTACA 1980  
AACTTTATCG GCACTTATAT ACTCTATTAT TTTATAATAA TTACTTAGTG TATATAGAAA 2040  
TGAGATAGCT TTTAATAATC ACTGCATATA TTTAGTTAAT TATCCCCCCC CCCCAGGTAC 2100  
TAGTTACTAA CCATAGACAC AAATGATGAG CTTATGCCCT GTCTCACAAA ATAATACTTT 2160  
TATATTCCTT ATGGAAAATA ACCATTAATG AATTAAATTG CAATAAAGAT CACATTGCCA 2220  
ATATTCATC TTCTAAATTC ATCAATAATT TAATACAATA TCTTCATCAA AGCTTATAAG 2280  
AAAAAATATT CTAATTATTT ATGCATTGCT GAAAATCTTA TTTTAAATCT AAAAATACT 2340  
GACTTATTTA TACTAGAGAG AAAGTTTTTC CGATATGATC AAAAAGCATA TTCGGAATCA 2400  
AAATAAATCC ATTTACTAAC AAATTCATAT CTACCTAAAT TTCACAGAAA TCATAGGTAG 2460  
ATAATTCTTT ATTATTTTTT TGTTAAAAAT TTAAATAACA AAATTATTAT TTTTATAAG 2520  
CTTCTATATA TTCCATAATT AAAGTTCTTA TAAAACCAGA AGCTGTTAAT CCCTTTTTGT 2580  
CTAAAATAGA ATAAAATTCA ATCCAATATT CATATTTTCA TCCTTACTT ATTTGCTTGA 2640  
TCGTCATTTT TGATCTAATA GGCTTAACAT TTGGAATGTT ATTGCTAATA ACATCATTAT 2700  
CACGAAAAGC AAATTTAGAT TTGCTAACAT TTTGTTTAAAT AATTTCTTCT AAATTAACCT 2760  
CTTTGCTTAT AGGCATAAAG CATCTCCCAA TCTTGAAAGT TCTAAGACAG ATCTACTCTC 2820  
CGGATAATAA TCAAAAATCG ACTTCTTATA TAGCTGAGAT TCTGCTATTT TAGCATCTTG 2880  
TCCAACCTCA TAAAGATCAT ATCCAAAAGT TTTAAATTGC CTTAGATGCA AATTATGTCT 2940  
TTTAAAACCT TTATTAAGCA TATTGCAAAT AATCTTCTCA TGTTTAACTT TTTTCTATA 3000  
AGATTTTAAAC AAAGACTCAA ACTCTTCTTT AAAAATATTA ATTCCTTCAA GGCTTAAAAA 3060

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| TTCTGGGGTC AGTGGAGTAA TAACTTCACA CATTGCAAGA ATAATTCTTC GCTCCCAAAG  | 3120 |
| CTCAAAACTG GGAGATAAAT CAAAAATTGC AAATTCAAAT CCCAATTTCT CCAATTCCAA  | 3180 |
| ACAAAAATCA TCTATCAAAT ATGGAAAATC TTGCAATTCA TGTGTCACAT CTCTTCTAAA  | 3240 |
| AGTTCCACTC GGCACACATG GCAAAATATA AAAATTTTTT TGTATTTGTC TTACTACTTG  | 3300 |
| ATCTACATCC ATCTTCTTCA AAAGAAAATC TTTAATATCC AGCTTAAGAA TTTCATGATT  | 3360 |
| AAGAAACCAT GTAGAAGAAC TTGCTTGCTG TATATCACAA TCAACTAATA TAACTTTTTT  | 3420 |
| TGTTTTAGAT AAATAACTTG CAATATTTCC GCTTAAGGTA GTTTTCCCAA CACCACCTTT  | 3480 |
| TTGAATATGA AATGCTATTT TTTTCATACA AACTTCCTTT TAATTATTTT ATATCACATA  | 3540 |
| TTAATTATTT TATATCACAT ATTAATTATT TTATATCACA TATTAATTAT TTTATATCAC  | 3600 |
| ATATTAATTA TTTTATATCA CATATTAATT ATTTTATATC ACATATTAAT TATTTTATAT  | 3660 |
| CACATATTAA TTATTTTATA TCACATATTA ATTACTTTAA TCTCTACCTA TGAAGCCCCT  | 3720 |
| TTCACAAAAT TTTTAAATGA ATTAGATCTG ATGTGGCCTT AAAAGCTAGC AAACACTAT   | 3780 |
| CTCTATATTC ACGGCTTTTG TCTCATTCTA CGATAACTTT TAGTTCTTT TTATATCTTA   | 3840 |
| TTTTTCACACC AATAGCATGA TTAACAAGCC TAAATTCGGA AAATTCCTGT CTTAGCTTTT | 3900 |
| ATTTCTTTAT AGCAATAAAA CTTAAGATTT AGAATTGCAT TTATATCTTT ATTATACAAA  | 3960 |
| ACGCTGTAAG TTTACCTAGC ACCACTTAAT TTTAGAATTG TATTTTAAAC ACCACAATTA  | 4020 |
| CAAATAGCTT GCTTGATGAA AAATATATAC CTACTTTATA CAAAAGGAT CCATACCATT   | 4080 |
| CTGATTTATA CTATAATCGT CTTACAAGTT TATAACATCC TAAATTATTA ATACTTTACC  | 4140 |
| CAAACATTCA CATATCTTTA ATTAATAAGT TCTCTATTGC TATATTTTAA TAAATAACTA  | 4200 |
| TAAAGCAAAA AATACCTTGT GTAAAAAGGT TTTTGTATTT ACAATTTTCT CATGTAACTT  | 4260 |
| AGTAATTCTT AATATAGATT TAGCTCCATT AATAGAAGTT TTTTGTTTTT TTGATAATTT  | 4320 |
| TTTTAGTATT CTTAAGTTT ATTTTCGTTG TTTTTTTATT ATTAGCTTTA AAAGCTTGCT   | 4380 |
| TATTTTTCTT GCTCTTATGT TTAAGAAATC CTTGTGTTCT ATCCCTCTTT AAATTTCTCT  | 4440 |
| AAAAGAATTT ATATATAGAG CTTAAGTCAA TCCATGCATA CAAAAGGCCA AACTATAAAC  | 4500 |
| TTTTTTTAGC AATAGAAGCT CTTATTTATA TTTATTTGAA CAAGTAATAA GATTTTGCTT  | 4560 |
| ATTTTTTTTA ATAAAAATCT ATCTTGCCGC TTTAACACTG TATTATATAA AAATCCTACA  | 4620 |
| CATCTAAATA CTTTTAAAAA GTATTTCTTT TGTTTGGTGT TAAAATATAT TCTGTACTTA  | 4680 |
| TAAATGCCAA CCTTCTCTTT GCCAAATAAT ACTTATTTTA TGTTCTTTAT AGAAAAAGA   | 4740 |
| ACTTTTATTA AAAAAATTTA AATTATGATA AAAATAAAAT TCATTTATCA CCAGAATTTA  | 4800 |
| CTTACAATAT TTAACCTTCT AAATTAATTA ATAATCTAAA AACGGCACCT AAGCTATTGT  | 4860 |



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| CTTATCTATA TTAGAAGCCT CTACCGATAT CATAAAAAGT ATATTCAGAG CTAAAAATAA  | 4920 |
| ATCTATTTTA CAAACCTACC CCCC GCCCAA ATTTATTTTG AAATTTAGGC GGGCAATTCT | 4980 |
| TCATTATTCT TTATTAAATT TATAAAAAGT CCTAAGAAAT TTCTCTCTTA AGGACTTTTT  | 5040 |
| ATAAATGGTT AAAGGT TAAA GATAAGTTAA AATCTACAAC AGTTTAGAAA AAAACAAAA  | 5100 |
| TTAAAAATAT TTTTTTTATT TATACTATGT ATTAATTGAT ATATAATATC AATTAATACA  | 5160 |
| TAGTATTATA TTATATTAAT ATATTTTAA AGGATAAAAA TGCAAAAAAGA AATAACAATA  | 5220 |
| AACATAATG AATATACAAT TGGGGGCATA AAAGGAACTT TCTTGGAAT TTCTCAATAT    | 5280 |
| GAAGCTAATT ATCGAGCAAA AATAAATGGC TTTATAATTG ACTTTTTTAA AATCCCATA   | 5340 |
| AGTTTAAAGA AAAAATATGA ACTTAATATT AAAGCCCTTA GTGATCCTAA TTTTTCATCC  | 5400 |
| ACAAATATTG CAATGAATTG CATAAATACT TTCAAGCTTA TAGTTGATAT TGTTAATATG  | 5460 |
| CAAACCGGTG AAAATTACGA TTATGACACA TTTATTACCA AAACAGACAC AGAAAAAATG  | 5520 |
| CTTAAATATG GAACAAAAAT AATTGCCGCA CTAGCAAGGC ACTTCGACGA ACAAACAAA   | 5580 |
| ACCAACTTTA ATGAAAGCTA TTATGAATGG GAAAAAGGCT GGATAGATAA AAAATGGATA  | 5640 |
| AATTATGAAC CAACTGCAGA AGAAATTAAA GAAATTCAAA TAATGAATCA AAAATTAAAT  | 5700 |
| CCTTTAAAC TCAAACATAG AAAAAAAAC CTTAATAACG GCCAAATAAG GCTTTTACAA    | 5760 |
| GCCATCAATA AAATTGAAGA TCAATCACA CAACAGGCTA CTAAATCAAA TAGCAAACT    | 5820 |
| AAAAATTAA AAGGAAATCA TGGGGAAAA ACCAAAATTT AACATTTTAC TTAAAGCGT     | 5880 |
| TTAATTTTAT TTATTATTAT TAAATAATAT TTACAAAATT AAAAAATAA AATATTATAT   | 5940 |
| ATGTAAGGTA GAAAACGATC TACCAATAGT CCCCACACC CCTATTAATC CTCTCCAAAT   | 6000 |
| AAGATCGGGG GTAGGGACTT CTTTTTAAA AAAATAAAAA CTAAAATATT TGGTGCCTAA   | 6060 |
| ATTAATAAGT TTATAGCAAA TAAGAAAAAT GAAAATCTAA AAAACATAAA TTAATAAAA   | 6120 |
| ATTTGCATTG TGAATATAAA ATTTTAACAA TGCTTTAAGA TTTAAATTAC TATTCTAAA   | 6180 |
| TCAAAGATTA TAGAAACAAA TCCTCGATTT ATTTTCATGGC AGCTTTCTAA ACTATTTAAA | 6240 |
| AGAACAGTAT TTACCAATAC ATGATCTAGC CTTACTTAAG GCAGCTCCTG TCTTAGCTTT  | 6300 |
| TATTTCTTTA TAAATAAGAC TTAAGATTTG GATTTGAATT TAGATTTCTA TCACTTAGAA  | 6360 |
| CTACAACTGC CAAAAGGCCA ACTGGTTTCT CTTAATTTTA GAGTTGTATT TTTAATACCA  | 6420 |
| TAATTACTAC ATAGTTTACT TAATAGGAAA CATCTATCTG CTTTATGTAA ATAAAATCCA  | 6480 |
| TAACAACCTA ATTTATATAA TAATTATCTT GCGACTCTCT ATACCACCAT AAACCACCA   | 6540 |
| TACTTTTCTT TTGCTATACA AAAATCTTAC AGATCTAAAT ACTTTTGAAA ATTTCTTTTG  | 6600 |

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| GGTTTAGAAT ATCAATAATT AATTTTCAAT TTTTATTTAA AAGAATGATA ATAATTTAAT  | 6660 |
| GCATTATTTA GGGTTTATGA AATAATATTT TTGCATTTCT TATTCGTTTA TATTTCTTTA  | 6720 |
| TAAGAATATA TAATTTTGTT CGAATTCTGC TTTAAAAAAT GGTTAATTTA GAATATAATT  | 6780 |
| CTAATGGCTA AAATGCTAAA AATGGATATA AATTTGGACT AATTTTATTA TATTGAAAAA  | 6840 |
| CAAATTATCT GTATATACTA CAATAATGCT TAACTTTAAA TTTTAAAAAT GTGTTTACTT  | 6900 |
| GTGCTTTATG GTTTTTGTAA GGTTAATTTT AATAATCAAA TTTAGGGGAA AGAAATTTAT  | 6960 |
| GAATAGAAAA TTTGTTATTT CATTATTATT TATAATATTA ACTTTTTTAT TAATATTGGG  | 7020 |
| TTGTGATTTA TCAATAAATA ACGATCGAAA CAAGATAGAT GGGGCTTCTC ATTTTAAAAA  | 7080 |
| GAAATATATG GATAATTTGA ATTATCAATG TTTAAGCAAA AAAGAGCTG AGGCTAAAAA   | 7140 |
| TTCTCAAATT AAAGTGGATG AGAATAATAA TAAAAATCAT TTTTATTCTT CCAGAGTATC  | 7200 |
| TAATGTTTCA AATTACTATG ATAGAACTCA TATATCTTGC AAAAAAATG ATTGATTTTT   | 7260 |
| TTTGAAAAAT AAAAGCATGC TTTGTTTACA ATCTGATTTT AAAAAATTTT AGTTTAGTTG  | 7320 |
| GTAAATATGA GTTTTTCAGT GTCTTTTTTAA TAGAAATGCA TATATATATA TGAACGTAA  | 7380 |
| GAAAATATAT TAAATGTTCC TAAAGTAAAA AAATTCCTTAG AATAGGGCCT ATATATAATA | 7440 |
| ATACTTTTTA TATATGTAAA TAGCAATTAA TTTTGATTAA TTTTAATTTT GCTGATTCTT  | 7500 |
| TTAAACCTT TACTGTTAGA AAAAATAATA CTTACTCTTT TTTCGTTATT AATAATCTTT   | 7560 |
| TTATTTTCTT TTTCATAATT ACTTCTATAT TGTTTTTTTTA AATTTTATT TAAAAACGTT  | 7620 |
| TTTTTAAATC TTTTTTCCCA AATTCATAA AAGTCATTTG TTCTGTCAGT TTTTCCATTC   | 7680 |
| ATCATCCATA TTTTTTTACT ATACTTATTT TTAAACTCTT TTATAAAATG ATTTGAAATG  | 7740 |
| TCTTCAATTT TATATTCTTC CTTATATTTT TCTATTGCCA ACTTTAAGTT TCTTAATGCA  | 7800 |
| TTTATATAGG TTTTTTCATT GTTGCTTATT TTAAGTATTT TTGTTATTTG CATTTTTTCT  | 7860 |
| ATTTTGTGAA CTTCTACTAA CTTGTTTGCA ATATATTCTT TGTAAGAAAT TTTATTTATT  | 7920 |
| TTTCCATTAT TTTTTTCTAT AGAATTCTCT ATCTTATTTA TACCTTTTAT ACCTTTAGGT  | 7980 |
| ATAACATCCG CAATTGATTC ATCTGCAATT GAGCTTTTAG GTTTTATATT TCTTATATTA  | 8040 |
| TTCTTGTTTA TAGTATTGTT GATTTCTTG AAAAAATCAG ATACTATTTT TTTATCTTTT   | 8100 |
| AAATATTCTT TTATTTCTTT ATTAATTGCT TCCTGAATAA TTATAAAGCG GTGTTTCCAA  | 8160 |
| AGATTTTTGT TTTGTATATA AAATGCAAAG CTTCGGTTAT CTTTGCCTAA ATGTTTTAGT  | 8220 |
| TTGGTTTTTA TTAAGAGTAT TTGATTTAAA AATGATATAT CATATTCTAA GGTCCTGATT  | 8280 |
| GATATTTTTT TATTATCTTT TGCAAGGCAT TTATTAACATA TATTATGTAT TTCTATTGTG | 8340 |
| GAATATGTTT TAAGTTTGTT AGATTTATAG TATTGTTTGT TTTTAAGGTC AATTGCCAG   | 8400 |

CATACTTTGA GTATTCGTTG GTATATGGCT CTTTTTTT TAG TTAAATATGA TTTTAGCCTT 8460  
GAGCGTTTTA ATTCTATTAA ATTAGAGCTT GCGTTTTTTT GATTGTACTT TATAATTTCT 8520  
TCTAATGTTA TGAGATTATT AAAATTTGTA TTGACATTAT TTTTATTTT TATTATCATT 8580  
ATCTTATCCT GGCTTCTGAA GTTAAATTTG TTGTGGTTTC AGAAGCTTTT TCAATTATTT 8640  
GGCTTGCAAT CTAAATTCTT ACTGCATCAC AAACGAAATA ATTAGCTTTT TACTATATTC 8700  
TATAGCAATG TTTTAAAT GTCAATATGA TAGATTATAA AATATGACCC ATCTTTTTTG 8760  
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TGCTTTGTTT TCAAAAAGGT AAGTATTGTT ATTTTTTATA ATAGGAATAA ACGCATTTTC 9780  
TATATTTTCT TTTCTATAAA TAGATCCAAG TATTTTAAGT TCGATTAGT AAATTCATC 9840  
TTTATTGATA GCTTTTAAGT CAATTGTGTA AACTTTGACT ACCATCATGT CATAAACTAT 9900  
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TTGTGGTAAT TTAGAAAGTT CATTTGACCT TAATTGTAGA CTAATAATTC CGCCTTTAAA 10020  
TGTTTTAAGT GCTATATTCT CTTTGAATT TGTTTGAATA ATTTTTTCAA AATTAAGTTC 10080  
AAATTTAAAA GCTATTGGGT TGATAATGAA GATTTTTTTG TTTTTTACAA AGTAAGTATT 10140

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| AATAATTGAC | CTTGGGTCAG | TATACACGAT | TTCTCCTATA  | GATGCACTTT  | GAAATTTATA  | 10200 |
| TAAATTGGGA | TTAGATATAA | TCTAATCTTT | AAATTGGTTT  | TTGTTAGAAC  | AACACCTAAT  | 10260 |
| AATAATAGTT | TTTAAATTTT | AATTCAAGCT | CTAAAATTAG  | AATGTTTTTA  | TTTGAATTAA  | 10320 |
| TTATATTATT | TAATTTTCTA | ATTTTTGAGA | AATTTTTTTA  | AAATAAATAT  | AAGATAAACT  | 10380 |
| AAGGGGGGTT | TTAATGAATT | CAAAATTTAT | TTTAAAGTAT  | TTTATTTTGG  | CGTTTTTTTT  | 10440 |
| AGTTTCTTGT | CAAACCTATC | AAATAGCTTA | TGATAGGTTT  | TCTCAAGTAT  | TAGATTCACA  | 10500 |
| ATATGATATT | GGGGTAAATT | ATTCTAGAGA | TGGAATATTT  | AAGTCTGTAA  | TTTCTATTAA  | 10560 |
| ATATGATAAA | TTGAAAAATA | AAAGGGAATA | TTTTATTTTA  | GTTAGAGTTG  | AATCTAGAAA  | 10620 |
| TTCTAGTCAA | ATAAAGCCCG | AAAAGATAAT | AACAGATACT  | AGATTTGAGG  | CTAAAGGAGA  | 10680 |
| GTTGGTTTCA | GAGGATAGCA | AACGTGTTGT | TTATTATAAC  | GATTTTTATG  | ATTCATATTT  | 10740 |
| TCCTTATGAT | TACACAACAG | TGATTACTGA | AAAAAATATT  | AAGGTAGAAA  | TTTATAAATT  | 10800 |
| TATTATTTCA | GAAAGCGAAT | TTATAAGATT | TGTTGCCCTG  | GGAAATGATA  | ATATAGCAGC  | 10860 |
| ATTTAGAATC | TATGCGTTCA | GAAATGATGT | TATTGTAAAGT | TTTAATAAGA  | TTCCTTTTAA  | 10920 |
| AAAGTTTTTG | GATGATTTTA | ATTCAAAAGT | TAAATTACTT  | GGTGGCAGTT  | GACTTAAATT  | 10980 |
| TAAATAATTT | TTAAGCCCAA | GTAAAGTAAT | TATTTGTTAA  | AAAGGATATA  | GATTAAGGGT  | 11040 |
| GTTTAGTATA | AACAAGGTTT | TTGATATTAG | TTTATTATAA  | TATCGACTTT  | AAAATGTTTT  | 11100 |
| TAATATCTAA | TCTTTTGAAA | AATTAATAAA | TTCTAGTATC  | GCTTTTTTCAT | TTCTCAGCAA  | 11160 |
| GAATAGCCCT | TCCCTTATTC | CATTATGGAA | TTCTTCAAAG  | GAAATTAAGA  | TTGTTTTTAA  | 11220 |
| ATTTTTATCT | TTATCATCTA | TATTGTCGTA | ATAAAATATA  | AAGTAAGGTC  | TTCCAGTATT  | 11280 |
| ATCTTTAAAG | CCAAGAAAAT | TTACAAATAT | TGCTGTTTCT  | TGAAAATCTG  | TTTTTTAAATT | 11340 |
| GTATGAGTGA | CCATTTTGTG | ATAAAAAAAT | TCCATTTTCCT | TCAAGATTTT  | TAATTTCTAA  | 11400 |
| ATTATTGATT | GTATTTTTTA | TTTTAGCAAA | ACTCTCAATT  | GCTTGTAATA  | TATATTTTAT  | 11460 |
| TGATGAAAAT | TTGGTATAGT | ATATGCGGTT | ATTGATTGTA  | AATTCATAAA  | AGATTCCGCA  | 11520 |
| TTCATTACCG | GCTCTAATTA | CATCTTGCTC | ATTTTAAATA  | GAAGTTGCAA  | TTTTTTTGTC  | 11580 |
| AATAACAAGA | TTGATTTTGA | ATGTAGAAAT | ATGGTTTAAG  | GTTTTTACAT  | TGTTAATTGC  | 11640 |
| TAAATTTTCT | GCTAGATAGA | CTTTATAATT | AATAAATATC  | CCTTTTAGAT  | TTTTAATTTT  | 11700 |
| AGCTTGTTTA | AATTCATAGT | TTATATTTTG | AGCATATATT  | GCCAAATTTT  | TAATCAAAAA  | 11760 |
| TATTAAGAAT | ATAAAGTTT  | TATTTTTCAT | TATACAACTT  | ATTATATGAT  | AGCAGTCTTG  | 11820 |
| AATAATTTTA | GTAAACCTTT | TTTATAGATT | AAGTCTGAAA  | TTTATAAAAA  | TTTTAGTTAT  | 11880 |
| AAAAGTAGTT | TTTGTTGATT | TTTTAGAGAA | TATGTCTTTC  | AATATTTTGC  | AGAGATTTGT  | 11940 |

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|-------------|------------|------------|------------|-------------|-------------|-------|
| GTTAGATGAT  | AATCTACTAT | TTATAAATCA | AGGATTATAA | AAACAGCTTT  | TTCCTTTATT  | 12000 |
| CTGGATAGCT  | ATACAATAAT | TGTCTTACAA | TTTCATGCAA | TTCTAAATCA  | TTAATACTCT  | 12060 |
| TTCTAAACAT  | TCCTTTTTGT | ATAGCTTTAA | TTTATAGTTT | TCTATTGCTA  | TGTTTTTATA  | 12120 |
| ATTAGCCATA  | AATATAGGCA | TAAATGTGTA | AATTCTAAGC | TTTCATCTTT  | TTTTATCCAA  | 12180 |
| ATAATACTTT  | ATTTTCTGTT | CTGTGTAGAA | AAGAACCCTT | AATAAATCCA  | ATTATGACAA  | 12240 |
| TGATTACATT  | CATTTATTAT | TAGAATTTGC | CTCCAATATT | TAACTTTCTA  | AATTCATCAA  | 12300 |
| TAACCCAAAG  | ATAGTAATCT | TAAAGATTTA | TAAGAAAAAA | TATTTTATTT  | ATTTATATGA  | 12360 |
| GCATTACTTA  | AGCCATTATT | CTAGCTTTGA | ATAATATTTG | ATCTTCTCTG  | CAAAAATCTA  | 12420 |
| ATTTAAAAAA  | AAATTTTAAA | AATACATGGT | AATACTCAAT | TATTGAACTA  | ATAATTGAGT  | 12480 |
| ATTAAATATT  | CTCCTTTTTT | AAAATTAAAA | GAATTTATTA | TCAATATTTA  | CTTCATACCA  | 12540 |
| TACATTCTTT  | TAAATAAACC | TCTTATCTTT | AAGGGGTTTT | CTTTTTATTA  | AATCTTTAAG  | 12600 |
| ATTACTATCT  | TTGGGTATT  | GATGAATTTA | GAAAGTTAAA | TATTGGAGGC  | AAATCTAAT   | 12660 |
| AATAAATGAA  | TGTAATCATT | GTCATAATTG | GATTTATTAA | GGGTTCTTTT  | ACATAAAGAA  | 12720 |
| TTTGCTATGC  | AATTTTAATT | TTTGTTTGTA | ATCGCCAATT | ATTAAAAATA  | AAATTATTAA  | 12780 |
| AGGGAATTAA  | TGTAAATTA  | ATTACCTTTA | AATATACTTC | TTTTAGAGAA  | TATATCATTA  | 12840 |
| CTAATATTAA  | TCTATTACTA | ATGATATTAT | TAAATTAAAG | ATCTATAGAA  | ACATCAGTTT  | 12900 |
| ACTTATTATT  | AGAATTAAAG | TTTATGTAAA | TTATAGGTTA | AAAATTTTTT  | GTAATCTTTA  | 12960 |
| GTAAGAATGT  | TAAACCTATC | TTTTATTAAA | GACAGGCTTT | GTATTATAAC  | AATTTCAATA  | 13020 |
| TGCAATTTAA  | AGGCTACTAT | ATATTGAATA | TATGTCATTT | TTTAGTTTTT  | CTGCTTCTTT  | 13080 |
| TCTTTTTTCT  | GAGACTTGAT | TGCAAATATC | TTCTGTATGA | GATTTAAGTG  | CATTTTCATC  | 13140 |
| TGTTTGTATG  | TTATTTATAT | TATTTTGATA | GTCTAATAAG | AGTTGCTGCA  | TCATTTCTGA  | 13200 |
| GACTGTTGTT  | TTTGTAGATA | AAAATTTTCC | CAAATAATAT | TTAAGCAATA  | CAAGATTTAG  | 13260 |
| TAAAGCGTAT  | ATTTTATTTT | TTTGATTTAA | TTTCAGTTAT | TTTTAGGATT  | TTTATTATTT  | 13320 |
| TAATCATATT  | TTCTTTATCA | ATATTTAATG | TTAATAAAAT | TGAAATAATT  | TCTTTACATA  | 13380 |
| AAAAGTCACA  | TTTATTGAAA | TGCTTTATTA | CTTGATACTT | TTCTATTTTCG | TTAATTTTTTC | 13440 |
| TTTCTTCTTT  | TATATTATTA | TTACAATTCT | CCAATTGTAC | ACTACCCATT  | TTTGTATCAG  | 13500 |
| AATTTTTTATT | AAAATAGTTG | GCAACTCTAT | TTTGAAATCT | TTTTTCTTTT  | TTTTCTTTAA  | 13560 |
| AGTGTTGGTT  | TATCTTATGG | TAACAATCTT | TTTTAGGATA | ATTAAGCTT   | TAATAAATTT  | 13620 |
| CyGTACCCGA  | ATTTACCCCC | ATATGTTGAT | AGTAGTTTGT | TGTGACTTTT  | ATTTCTTTTTT | 13680 |

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|------------|------------|------------|------------|------------|------------|-------|
| GTAGTCTATA | GATATACTTT | TGCATAGTTC | TTAGTGTAGA | AATAGTTTGA | CCGTTTTTTC | 13740 |
| TTAGATTTTC | ATTAAAGTAA | TAGAGTATGG | TTTTTTGTGT | ATATTTCTTA | TGTGTTTTGT | 13800 |
| TTAGATAGCA | TATTGTTGAA | ATAAGAACTA | TTAATTTGTG | TTGAACTTTA | TTATAGCAAT | 13860 |
| TTCTATTGGT | TTTATTTGTT | GTTTTTGAAT | TCATAGAGAC | TTCTCCTTAC | AATTATGGTG | 13920 |
| ATCATTTTAC | AATATAACTA | AAATTGCTAT | AAAAGTAAAT | ACTCTTATAG | CAATTTTAGT | 13980 |
| TATATTGTAA | AGTTTTAGTA | ATTGAGATTA | AAATTTATTT | AAAATACAAC | TTGACTATGG | 14040 |
| TTTAATTTTT | GTTATACTAT | AAATAGTTCG | ACGAGAGTTC | GAATTACAAA | GAAGTGATCG | 14100 |
| TGAAATAGGG | CTTAAAGCAA | GTTTTTTATA | AAGAATTTGT | CTTAAGCCCT | ATTCATTTTA | 14160 |
| TGTAACACTA | ATTTTCCCAG | TTTAAGTTTT | ATTTTGTTTT | GGGCACTATA | ATAATGATTT | 14220 |
| TTTTAGATTA | AAAATTTTCT | AGAATTTAAA | GATATATTGG | ATTTATTTTG | TATTTAGCTT | 14280 |
| TATATTGGTA | ATTAAGTAAT | TATTTATGTT | CAAAATCCAT | AAAAGACATA | TAGTCCTTTA | 14340 |
| TGGATTGATC | ATTTATAGAT | CAAAATATTC | TTTATTGGGC | CTATTATAGG | CCATAATATA | 14400 |
| CTAGGATAGA | TATTGGTTTA | CTATTTATAT | AATCGATTAT | AGTAAATTTT | CTGGATTATA | 14460 |
| TTAGCTTAAA | TATTAGGATG | AAGATTATAA | ATTTTAGTGC | AACAAACTTC | TAAAGGGTAA | 14520 |
| AGGAGTGTAT | AACGGCCTAT | AAAGCTTTCA | TTTTCTTTAT | TTGTGGGACA | TTTTACGATT | 14580 |
| ACTTTTGGAT | TTTTTTCTAA | TATTTCAAGA | TATTCTAATA | GGGTTTtATA | ATTAACTCGT | 14640 |
| GTTGAGTCGT | TTtAGCTAGA | GCAAGATTAA | ACTTGCTTTT | TATTAATAAA | TGAGTATAAT | 14700 |
| CTTTGTTTTC | ACTATAGAAC | AATTCCTGAT | TCATGTGATC | TAGTGTTTTG | AC         | 14752 |

(2) INFORMATION FOR SEQ ID NO: 10:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10749 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| CTTTTTTACT | TTTAAATTTA | GTAAATTGTA | AATTTGATAG | TCTTAATTTA | TCTACAAAAA | 60  |
| GCGTAGATGA | CAAAAACAAT | TCTATAGCCA | AGCTTCTTCA | ACACTTATCA | AAAAGTGAAG | 120 |
| ACCAAGCCAA | TAAAACTTCT | ACCTCAGAAG | ACCAAAAGGA | ATTAGAAATT | ACGGAAAACA | 180 |
| AAGAACAGGA | ACATGAAAAA | CTTTCACAAG | TAGCACAACA | TGCTCCAAAC | TCAAAAATTG | 240 |
| AAAAAGTAAA | ATCCGATGGA | AAACCTGTTC | CTGGGGACAA | AATTCCTTCT | TCAAATAAAG | 300 |
| ATATTTACAA | TTCTTATATC | CCAGAAGTAA | AAGAGGAAAT | TGTTTATGAA | ATTCCTGAAG | 360 |

|             |             |             |            |            |             |      |
|-------------|-------------|-------------|------------|------------|-------------|------|
| AAGTGATAAT  | TCCCGAAACA  | AAAATTCCTG  | AAATTACTGA | AGAAGTGATA | ATGCCATATTC | 420  |
| CACAAACAAT  | AGATTTTTAT  | ATTGAACCAA  | GGCCAATAAG | TAGTTTCCTT | ACTCAAGGGA  | 480  |
| CATCACCAAG  | TATTACAAGT  | ACAATAAAAT  | CATATAAAGA | ACTCGCTAAA | GAAAAAATTA  | 540  |
| ATAATGGCTT  | GAATATAGTA  | CAGAAAATAA  | CTCAAAATAT | TGATAATATT | ACAGAAAATT  | 600  |
| TAAATTCTAA  | AGAAACACCA  | AAGGAAATAT  | CGGGGAAAGA | AGTTGAAGAA | AAAATTACAC  | 660  |
| ACCCCATATT  | TGATCACATT  | ACTGGAAGCG  | GTAATAATCC | CGGACAAGAT | TCTATATCCA  | 720  |
| ATACATGGGG  | CGAAGGACTT  | GAAATTGGTG  | GTGATAGCAA | TTTCTTTACC | AATTTAGAAG  | 780  |
| AAGTAAGAAG  | CTCTATAAGA  | ACAAAAATCA  | AAGTTTCTGA | TGGCACTGAG | CAAACCAAAG  | 840  |
| ACAAGGTGGA  | AATAGATGAA  | ATTATAGAAG  | ATTTGCAAAA | ACTAAAAGAA | TTTCTAGAAA  | 900  |
| AACTCAAGAA  | ATATCTTAAA  | GATACAAATA  | ATCTTAGCGC | AATCGAAGAA | AGTGTAAGG   | 960  |
| GTTTAAGTTA  | AAAGAACAAT  | CGGATTTTTA  | ACTTAAAGTC | GAAATTACAT | ATACCTATAT  | 1020 |
| TAATGACTTA  | AAAACCTAAT  | TACAAAAACT  | TTAGTAATTG | GGTTTAAATT | AAAACACATT  | 1080 |
| ATTTAGTAGA  | GGCTACATCA  | TTTTCTACAT  | CTAAAATTGA | TTCGTAAAAC | TTATAAACAA  | 1140 |
| GTTTTTATAT  | CTTTTAAAAC  | ACAAATCTCA  | ATAAAATATT | TTTGATTTTA | GAATTACTAC  | 1200 |
| TAAACAAC TA | AAAATTATTC  | ATTCTTTGAT  | TACTAGGGCA | AAAGAAACAC | TACATGAAAT  | 1260 |
| CAGATATAAC  | TCTCATTCAA  | AAAAC TTCTT | TTTAGCTAAA | ACACCTTGTA | TTTTAAATCT  | 1320 |
| GTACCAAAAG  | CTCAAAATATA | TCAAGTCATT  | CGCACCTTTA | AAGCTCAATC | AAAATAATCT  | 1380 |
| AAATTATTAT  | CGAAATAGCT  | CCAATGAGCT  | TACATCTACT | ATTACAAATT | TAATTTCAAA  | 1440 |
| TTTTTTTAAT  | GAAAATGAGT  | CTTGCAAAAA  | TTTGTATAAT | CTAACGTTAT | ACATTAATGC  | 1500 |
| CAACCTAAAA  | AAACTGGGAA  | TCTATAAAAA  | TACTTGTAAG | TTGCAAAAAC | AAATTATATC  | 1560 |
| TAAAATTTTT  | ATTCTTGATT  | AAGGTAAAAA  | TTCTTTGTAA | TTTCTACTTG | AAATAGTTGC  | 1620 |
| CAATTAATGT  | CATAATTAAG  | GACGACAAAA  | TAGATAAAAC | AATGGGCGAA | ACTACTGATG  | 1680 |
| CAATAACAAC  | TGACACTCTG  | TTTTTCACGC  | TAAGCTTTTC | CAAAAGAACT | TTGTTATTGG  | 1740 |
| ATTCCAGCTT  | TTCCAAAAGA  | ACTTTGTTAT  | TGGATTCCAG | TTTTTC AAA | AGAACTTTGT  | 1800 |
| TATTGGCTTC  | CAGCTTTGCT  | TCTAGCCTTT  | GTTCCAAATT | AAACATATCT | TTTTGTAAAT  | 1860 |
| TCTTTTCTAA  | GTTATCAATC  | TTAGTAGTAA  | GTTCGCTTTT | AACAGTATCA | ATCTTAGTAG  | 1920 |
| TAAGTTCACT  | TTTAACAGTA  | TCAATCTTAG  | TATCTAAATT | ATCTATTTTT | AGATTTAAAT  | 1980 |
| TCTTTTCTAC  | GTTATCAATC  | TTAGTAACAA  | GATTGTCAAA | CTTTATACCA | AATTGCTTTT  | 2040 |
| CTAAATTTTC  | TAAATCTCTA  | TATGTTAGTT  | CATTGTAATA | ATATCTTTTT | GACAAATCTT  | 2100 |

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| GAGCTATTAG TTGTTCCATA CTCAATCGTA GAAACTCTCT ATATATTTGT TCTTCAGTAA  | 2160 |
| ATTATGAAAA AAAATCAAAA AAACAAGTGC TCAGAAATAG AAAAAACACA ATTAGAAATA  | 2220 |
| ATAAATACCC AATCAGAAAT AGAAAAACAA CTCCATCAAT TAGAAATTGA GTTTACTGGG  | 2280 |
| GTATGCCTGC TTTATGTGGC AATACATTAT TAAATCTAGA ATTGAATAAT TATTCTCAAA  | 2340 |
| AAAAACTATT AAAATTTTAC AACGAAATTC TTAAAAAAGA TAATAAAAAAT TCTTGCGATC | 2400 |
| TACCAACAAT GAGTAAATAT CTTGATATAT TAGAAAAACAC AAAAACCATA ATAAAGCTAT | 2460 |
| CTTTTAAAAA TCATCCCAA TATATAATTT ATTATAAAAT TAATTACCCC CTAAAGTGT    | 2520 |
| TTTGTTC AAC AATACAAGAC TACTATCAAA CAATAGCAAA CAACTAAAA CTACGGCTAT  | 2580 |
| AAC TAACTA TCCTACTACT ATTTAATCGT AAAAAAATAT TTCTTTGCAA ATTAATCAAT  | 2640 |
| TTAGAAATAT AAATGTAAAG ACATATCTTT TTATTTGATA AATAATAAAA ATTACTGGGG  | 2700 |
| CACTATTTGG AAAAATTTTT AAAAGAAATA TTAAGTATGA ATAGCAAAAA TAGGCTATCT  | 2760 |
| TCACACTTAA TAATTCTTAT TTACACGCTA AACACATTG ACCTAAATTC AAAAAATATT   | 2820 |
| GGGTACAAAG AGTTTGAAGA GTTAAATAAA GCACATGAAG CTGCTTTAAG TAGTAGAGAA  | 2880 |
| TCTTAGCTAG TGTAGCTTCA AAGAAGACAT GACACTTACT TATAAATAAG GAAGCTTTTG  | 2940 |
| GATTTTAACA AAAATAGTCT GGCTTTTTTG CACATATAAA ACAACTCCAT TATTTCTAAG  | 3000 |
| ATAAATATTT TAAGCTCCCT GTTAAAGTAA TTCATTTATC CTAGATTTAC TCTTCCACTT  | 3060 |
| CTATACGTCC CGTCCTGCTT AATCATTAAT TTTTAAATTT AAATGTTTCT TTCTAGTTAC  | 3120 |
| GCACTATATT GTTACTATAA CAAAAATTGA ATCTTAAAAA TTAACATATT ACTTTAAAAA  | 3180 |
| AGTATACTTA TAGGAGATGC TTATAAAGCT TAACAACTT ATTTTACCA ATATATATAT    | 3240 |
| CTAATATCTC TTATACTTAG TTGCTCAATA TCTAAAGATT TAAGTGATAA GCTCTCTTCA  | 3300 |
| CTAAAACTA ATGATTTTTT TAATTCAGAC ACTTTAGTTT mTGATTCTAG CAATTATGCT   | 3360 |
| CCTTTATTAG AAAATTCAAC TACTGGCAAT ACTGCCTTTA GTAGCAAAGA TGTTGCTACT  | 3420 |
| GCACTACCAC AAGAGATTGC AATAGAAAAT CTTTTAAAAG AAAAATTGTA TGAAATTAAT  | 3480 |
| CAGATTTCTT CAGAAGATAT TCCAAATATT GATGATAAAA TTA CTCTTTT GGAAGCTTTA | 3540 |
| AAAAAGCAAT TAGAAGACAA ATTAGAAATC AAATTATCTA ATCAAACACA CATAAAACAA  | 3600 |
| GACGATAGCT TTAATAAGCA AGCTCAATTA CAACAATTGA ACCCAGGTGT TTCACAAAAA  | 3660 |
| CAAGAAATAG ATAAAAAAC ATAGAAAAAA GAAGCCTAGA CAATTCTTCA CAAGAAAAAG   | 3720 |
| AACTCACAAA CCCTGCTTAT TCAACACAAG AACATACAAA AAGTGCTACA AACTTAGACT  | 3780 |
| CAAAAAAGA TGCTCTTATT AAAGAACTC TTGAAGCTAT AAAGGAAAAA ATTAAAGAAG    | 3840 |
| AAAAGAAAAG CTATTCTAGA AGAGCAGCAA AGACAGAAAC AACAGAGCT TGATAAGATT   | 3900 |



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| AAAGCACAAT ATGAGGAAGA GAGGAGAAAT AGAAAAGAAA GCAAGACTTC AAAAATTCAT  | 3960 |
| GCAAACACT TCTGACTTAA CTAATCTTGT TAAGATGGCT GGGCTTGAGG CTTATAGCAT   | 4020 |
| TTCCCATAAA TTAAAAGATC TTGAAAAAGG TATTGAAAAT TATGAAGACA ACAATAATTC  | 4080 |
| TACTAAAGAC AACTAAACC AATCTCTTAA AGATGTTATT TATGAGATTA CAAAGCTTAG   | 4140 |
| TAGTCTTATA GAAGCAAAAG ATAAGATTGA TCAGCGTAAG AAATTGGGTT ATCAGACAGA  | 4200 |
| ACAAGAGTTT GATGCTAAAT TTATAAACTT AAAGAACATC AAAGATAAGC TAAAGACTTT  | 4260 |
| ATGTGGTAAG GCTAAAGGCC ATCTTGGTAG CAATCTTTCT AGCGTTACTA TTGATGGGAT  | 4320 |
| TACTAAAGAG AAGGTAGCTC AAGCTTATCT TATCATTAAA CTAATACACA AAACATTAAT  | 4380 |
| TTATATGAAT GATGATAGTA AAGGTAGCCT TGCTACTATA CTTAATGACT TAGAAAAGGA  | 4440 |
| TGCCAAATCA ATATAACTAG CACAACAATA TCTTCTTATT TTAAAAAAGC CTAAGTACTT  | 4500 |
| GTATCTTAGG CTTTTTTAAA AATTATCTTG CCTCTTAGAC CATTCTTGAT CATAATAATA  | 4560 |
| CTGTTAAGAA TAAATTAATG CTAAAATGGA TAAGTACACT TACACTAATT ACTATTTTTG  | 4620 |
| CAGTAAATAT AAAAACATTC CCACTACTGA TGGAATAAAT ATTCCTAATA TCCAATAAAA  | 4680 |
| TGGATATATC AAGCTTTTTTA TATGCGAGTT GTTCTCACTT CTTATTTCTT TAAACAACCC | 4740 |
| TATAAGCTCT TTATGATTTG TATTTATTTT TTCATCTAAC TTGCCTATTC TTTCATCTAA  | 4800 |
| CTTTACTATC TCACCCTTAA GCTCACTTCT TACTTTTTCT ATTCTTTCAT CTAACCTTAC  | 4860 |
| TATCTCACCC TTAAGCTCAC TTCTTACTGT CTTTATCTCT GCAGAAAGCT CACTTCTTAC  | 4920 |
| TTTTTCTACC TTTCATCTA ACTTGCCTAT TCTTTCATCT AACTTCCCTA TTCCACTTCT   | 4980 |
| AAACTCATCT CTAGCTTTAT TCATTTCTT TTCTAGCATA CTCATGCTAC TTTCTAGGTT   | 5040 |
| TTCATATACA TAATTTGAAC TACGAAGTAG CACATAATCA ACTACATCTT CTGGAAAATC  | 5100 |
| CTTATCAAGA AATACCTGCT TTACATACTC ATATTTGGGT TTAGCTTCAC ATGCAAAATT  | 5160 |
| ACTCATATAA CCCTCCTTTA CTGCAATTTA ACTACTTTTG TTATCTATAT TTAACATCCT  | 5220 |
| TAATATCTAC TATTAATAGT AACACACATT TTAGCTAATA AGATAGGTTG TCAAAGCTAG  | 5280 |
| TGACAAAATC AAAGTTCTTT CTAAGTCATC TTTTAGTATT AGTATTGCTT GTCTTAACAA  | 5340 |
| GATTCATTAT CATTACTTCA CTTGTCTGCT TCTAACTACA AGATCAATAT TTATTGATAA  | 5400 |
| ATTTCTATAT TTCCTAATTA CAAAATTATA CTTTACTAGT TCTCTGATAG CTCATAGCAA  | 5460 |
| ACTAGACATA AGAACCCTTA AACTAGATT ATAGGATAAT CTAGACTAAG CTTCTGGCTT   | 5520 |
| CTATTTTTAT AGAATAGAGA AGCTTGGCTT TAAAAAATAA CAATAAAGAA TAGCAGTTAA  | 5580 |
| GAAGTGCTAC TATTCATTCT ACAGGTCATA AATAAGTCGC TTGCATGCTT CTGTTATATC  | 5640 |

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| ACACACAACT TCTCTTATTA AGCTTAATGG CTTACTAAAC CGTTTTTCTT CACTCTTACC  | 5700 |
| TTCTTGCAATC AACTCTTGAG CAACACCATC GCCATTTCTT TTAATATCGC CAAAAAGGCT | 5760 |
| TTCTACTTTT CCCATTAACC CAGTTACACA CTCCTTAACA ACTTCACCGT TTTTCTTAGC  | 5820 |
| GCCTTCTACT TTAAGAGAAA ATGCTACAAG ACCACCTTCT TTTCTCTTTC TAAATTCTTC  | 5880 |
| TATTACCTTA TTTACCTTAT CACGCAAACC ATAATCATCA TCTTCATGCT TAAGGCCACT  | 5940 |
| TTCTTTTGCC ATTTCTAATA TTTTATAGT AAGCATATGC TACTTATCCC TGTCTTAAGA   | 6000 |
| TTATCTTTAA GTGCTCCTGC TACATTTATC CTGAAGATAT TAATGCAGAT ACACCTGCCT  | 6060 |
| CTATCCTTCT AGCTGTTTCT TTAATTTGGC TTACAAGAGA AGGTACTTCA CTTATTGGTA  | 6120 |
| TTTTGCTACT ACCGCCTTTT GTCATGCTAT CTAGTACCTT AACCTTAGTA TCACTAGCTA  | 6180 |
| CATCCTTTAC CTCTTGCGC ATCTTTTCAA GCCCATCTTT GCCTAATGCC TTACTCTCTT   | 6240 |
| ATTTAGACTA CTTACCTACA CCCTTTTCTT TAACAACAGC AAGATCAAAA GCAGGTTTCGG | 6300 |
| CCTTACTAGT CTTTATGCT TCTGCTGGCC CAGTTCCTAC ATTTGAATAA AATAACTTAC   | 6360 |
| AAGAGGTCGC TAAAAGAACA CTACATAAAC ACAAATATAT CCTCATATTA AAACCTCTCT  | 6420 |
| CCTTAAATTT AAAAATTAC TTGGTTACTT AAGTAAGTCT AGTCCTTATT CTCTTTTTTTA  | 6480 |
| ACCAAGCCCA CTTACTTATT TACTTTTCTC TTAGCCTTAT AGCTTGTATC AAATAATACA  | 6540 |
| AGCTATTTTT ACAAATGTGA TATATTCTTT AATGATAAGG TGTTAAGGGG CAAGAATACA  | 6600 |
| GATAGAGCAA GATGCAGGCA GTATGCAAAG ATATGATTAA AGACATGCAA ACTAACATAC  | 6660 |
| AAAATAATAA TAGTAGCCCT ACTCCTCAGC AAGTTAATAA CCAAGGGAGC GAAGCTAGAG  | 6720 |
| ATATTAAGAG GGAAGTCGAC TCTTATGTAG AAGAGTTTAT TAGACTAGAT ACAGAACTAG  | 6780 |
| ATGAAATAAA AGTAAGCCTT AGTAATATGG AATGCTTGCT TAGCACAGCT GCCTCTTATT  | 6840 |
| TAAAAGAAGC TAGAACTACT CCTAGATCTA ATAAAGTTAA GTATTCCTTA TTGTATAACT  | 6900 |
| TGCATAAAGC CATTAGCAAG GTTAAGAGTA GTTATGCTTC TCTTAATGTT TGCTATGTTG  | 6960 |
| ATGCAACTTA TTCTTTAGAA AAAGCTTGTG TTATTTTATAG AGATACAAAT AACAAGGCTG | 7020 |
| ATGATGCTTT AGCAGAAGCT TTAAAAGAAA GCAAGGATAT TAGATACAAC ATGTTTTTCAG | 7080 |
| CATTATTGCT TGACAAATCA CAACCTAATA CTAACAAGAA GGCTAATATT GTAGATAATA  | 7140 |
| ATGAAATAGA AAATTTTTTG TTTATAAATC TCTTCTCCTT AGATTTTAAT AATTAAAAGT  | 7200 |
| CACTTTACAA AAACATAAAA GCAATATAAA TAAATATACC TCGCGGGATA GATAGTAGGC  | 7260 |
| TCTATTGCAA CAAGCATGAC TAATTTTATC TTTTATGTA ATAAACTAG TCCAAATTTA    | 7320 |
| TATTTATTTT TTGCTTTAGC TATAGAAATT ATATTCTAAA TTAATCATTT TTAAATATT   | 7380 |
| TATTGGTTTT TATTTGTAA GCCAACTAG CTTTATTTrAT GGGTAAATAT TAGAAGTATA   | 7440 |

yCAAGATAAT ATAATTTATT ACTTAAATGA AAATCTTAAA AGAACTATAC AAATTACTCA 7500  
GCATCTTCTT TTTTTTTAAC TTTTITAGAA AGTCTAAAAA ACTTGTGCTA AAATAAAAAA 7560  
ACACATATTA TGCTCGCAAT TTTCAAATAG TGTAATTAAG CTCTTGTATT TAATAATAAT 7620  
CAAATACyTT TCTCTAAAGT ATAGTCAAAT AATAGCAACA CTAAAAAGTA GTAATATTCA 7680  
TTAATGTGAA TCTCTAAATC TCTGGCATACT ATTTTAAATG TCATTCAACG TCTTATCTTC 7740  
ACAGGATTGC TATTAATAGG AGAAAGTCTA ATGCACTCAA TTCTCCATTA TTGCTATCCA 7800  
CTTAAAGAGA TGGGGGATTT GAAAACATAA AATAATTATC AAAAACATTA GCAAATCCCC 7860  
CTTTATCTCT ATGATGCTCC TTCACATCTA TATGATTTCT ATCTTTACCT TCTACATTAA 7920  
GCTGATTATC TCTACCATAT TTAATATAGC TAAGCGGCTT TTAACTTTA CCCATATTTT 7980  
TCAGTTTGAA TAAAAACCTT TTAACATACT CTTCTATTTG GGATACATCT CCTTTTCAAT 8040  
AAAAATTAAA ATGCGCTGAT TTTATACATT TACGAAAAAA GTTAATGTAT CGAGTTTTTC 8100  
ATTACTAAAT CTAAGATTGC TTTTCTAACC TAGTTTTAAA TTAATACTTT CATAAGCTTT 8160  
ACAAGCTTTA GTCGCTCCKC ATATAAAATC CAAAATTCAA TTGTTTTATA TAAGTAArTA 8220  
TCAAGTAAAT TTAAATTGGA TAGTAAAAATA TTAAATAGGG GAAAAAACAA GCTTAATATT 8280  
GAGTGATAAA TAAATTTTTT TCTTATTAAA TAGTATAGTA ATGATATCCA AAGTATCAAG 8340  
GGGCCATTAT TCTTCATTAG ATACCCTGCA CAATTTTTAAA TATAGTTCTT yAACCTTTTA 8400  
GTTGTAACAG GCACAATATT TTTAACAATA TTAAGTAATC CTTTAACATA TTTGCGAATT 8460  
TCTTTTGATG AATTCTTATT CACTTTTTTT GTTTCATTTG ATTCCAATCT TAATTTGAKT 8520  
TGATAAAATG AAATTAAGAT TGGAATmAG CTGACAATAC CATTTTGTAT GCAAGCTTAA 8580  
TAGTAAAAGC TATTCTAAAT ACTTACTTTA AAACATGGCA ATCTACCAAT TCTGATATAA 8640  
ATCAAAACAA TATTTTTGAC TTTTATCTAA ATCAGTTAAT ATACCTTTTG TAAATTGACG 8700  
AAATCCATTT TCTTATCCAC AATACTTTTT TACAAC TAGA ACTTTAATTA TTTTACTTTA 8760  
AACAAGCTAC ATATTTACAT ATTATGTAGC CTGTTTTTAAA TTAAAAAAAT TAATATTAGT 8820  
ACCAAACGCC ATTCTTGCTA ATGATACCTT GCACTTCTTT AAGAGAATCC CTCATTAATA 8880  
AGATTGACGT TACTATTGCT TTATATGCTT CGTATAAATT AGATTGTTCT TTGATCTTTG 8940  
CAATTAAAGT TTTTATTTCT GCTTCAATGT TCTCTAATTT CCTTTTGTCA TCGGTGTCAT 9000  
TTATGTATAC AAAATTTGCT GCAGTCTTTA CACTTACTTG AATATAATTT AATAAGGTCT 9060  
TGAAATTTTT TTCAAGGTCT TCTTTTGTAAC ACTTTGCAGC TTCTTCTTTA GCTTTGGCTT 9120  
TAGCAAAGTT GTCAAGGCGT GTAGAATACA TTTGGGTTAG CTTTGTGTGAA AATAATGTAT 9180

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| AAGTATTATA TATCTTAGTA ATTGTTTGAA TTGCTGAATC TACATTATAT TTAACACCTT  | 9240  |
| CTAGATAAGA TTGATATCGA TTGCTTAATC TTATTTCCCTC TTCATCCTCT TCATCATATT | 9300  |
| CATCTAAATA ATACTGATCA TAATCCTCTT CCTCTATTTT ATCAGTGTAT GAAATAGAGT  | 9360  |
| TTGATCCTGC AATGCCTTGT AAGGAACTCT TTGGCCTTAA ATCAGAATCT ATAGTAAGAT  | 9420  |
| CAATTTTCATT ACTTTCAATA GGCTCCTCCA ATTCACCACT TTCACCGCTA AGGGAATTTA | 9480  |
| AACTTCCTTG AGTCATCCCT TTATATTCAT CTTGTTGTTT TTGTATTTTT TCTTTTCTAG  | 9540  |
| TCTCAGATTG CTCTTTTAAT AATTCAGTTT TTAAACTTTC TTCCTCTAAA ATTACATTTT  | 9600  |
| TTTGTA AAAA ATTGCTTTTA TTAGCAGAGT CCCTTTTTTA ACTATGAATA TACGGTCTCT | 9660  |
| TTCTAGAAAC CTTGCTTTTG CCTTTCCTTC TAGCAATCTT ACCTTTACCT TTCTTATTCA  | 9720  |
| TAGGCTTTTT AATAGATTCC TCGCTAGTCT CTAAATAGTA GTTCCCTTA TCAATAAGC    | 9780  |
| CAGGGGATTC CTCTTTCATT TCATATCTTA TGAATAAATC ACAACTTATA AAACCAAAAA  | 9840  |
| GTAATCCCAA AGCCAAATAT TTAATTTTAA CTTTTTTCAT GCTTCTCTC CTTTAAAGTT   | 9900  |
| AATACTAACT TTAAATCATT TTAAGTCGGA TTCCAAAAAT TAATAAACTT TTCTTATCAA  | 9960  |
| AAAGAGGCAA AATTATTACA ATTTTAATTG TAATAATACT AAATAATAT TTACTATTAT   | 10020 |
| TTATCAATTC ATTGAATTC TCTTCTTTT TAAAAATTTA AAATAAGTGC TATCAAGAGG    | 10080 |
| GTGAACAAAG TACTTTTTAT TAAATTTTAT AAACAGATCT TAAAAATAA CTTCTAAATA   | 10140 |
| AAATTGAAAA AAGTTTAAAT GTAGCTACCA TCTTATCATA TGCTGATTC ATTCTTAGAA   | 10200 |
| TTCGAACTGT AATCAGACCT TTATATTCCT TATCAATTAT CATTGCCCTG AATCATAAAT  | 10260 |
| TTTGCTTTAA AACTTGATGT GCAGGTTTTA GTATTACTAA GTTGAAATAT TGCAAATTTA  | 10320 |
| AAAAGTGCTA CCACATCTTT AAATCTTTTT TGATTTTGAA ATTGATAAAT ATAGTTAAGT  | 10380 |
| TTATAATTaG CAAATATATG CTTTCTTAAT GAACTAGAAT TTAGTGATAT TGCAGATATA  | 10440 |
| ATCAGTTTAA TTGAAAATAT TTTGGGGAAT AAGCCTcTAG TGGGGATAAA GAAAAAATGA  | 10500 |
| AGAAAATTAG AAAATTAAGT AGCTACTATA AAATTTTTCC ACTATGGAAT TGAGTTTCCA  | 10560 |
| GATGTTTCAGG AAGGATTGAT ATTGTAATTA GAAATCCACC AGGGAGAAAA CTAGTTTAAT | 10620 |
| GAATCAGAAT CTTCTCAAAA CATATTCCTA GCTACAGAAG ACTAAGCATA nAAGACCAAG  | 10680 |
| TAAAAATAAGG CAGAAATACT AGTAAGACAT TATATTGAAT ACTGATACAA TGAGGAnAAA | 10740 |
| GGCGTATAG  | 10749 |

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10502 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

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|--|------|
| AATGAGCAAA GTTTGATGGA ACAAGAAAAG AACTCTCTAT ATGTATATGC GCATCAATAA  | 60   |
| ATCCTGGCAG CACATATTCA TCCAATGTCG CATTAATTTT TTCTATGCTC GCAATATGAC  | 120  |
| CGTTTGCAAT CGCTATACTA GCTGGATAAA TTTCTTTATT AAAGATGTCA ATATAATTAG  | 180  |
| CTTCAATTTT AAATAAATCC ATTATTTATC CTCTCCTAAA AACTTTTGT TCATAATATA   | 240  |
| CTCTACCTTA AAATCTTTAA ACTTAAATTA TAGCGCAAAG TGCCAGTATA TTTAATTGCA  | 300  |
| ACTGTATTTA GAAAAAATAA AAATCGTCGA TATTTGTTAT ATACGATAAA AATCGAAGAT  | 360  |
| AATTTTTTGG GTAAAAATAA TAGAAAAAAT TTAAATAAAA AATAGCTAGC AATTCCTAATT | 420  |
| TTGATACCAG CAAAGATTAT GTGGTAAAGT ATCAAACAAT TTTTAATTGA TTTTTATAAA  | 480  |
| AAGGTTTAC ATTAAATTTA AAATTAAATA ACAATAATAT TTCGAATCTC TTTTCTAGA    | 540  |
| TTTATAGGAT TTTTATCCAT GCTTAAACA ATATCTGAAA AAGCTTTATT TAAATAATCT   | 600  |
| CCCAATTTGA TATTTTCAGA CTTGATGGAC TCTTTATTGC TGTTATAATC ATTTAATAAT  | 660  |
| TGTTTAACAA GCTCTCTAAA GGTTGTTCTT AAAGATAAAA AATTTTCAAG ACAAATTTTA  | 720  |
| ATCCTTTTAA GATCAGGAAT ATTTAATAAC ATTAGGTTGT TTTTTTTATC AAGTAACAGC  | 780  |
| CTCATTATTG CCTCAAATCT AAATTGGAAT TCTATGCCCG CATTTTGCAT AATTTTATTA  | 840  |
| GCAATCTTCT TAATGCTATG TAAATTTGAA TTTAAAATTA ATCCTAATTC TTTCAACTCG  | 900  |
| CTTTCATTGT AATCTAAAAC CGCATACAAA CACCCTCTAG CCTTTTTAGA TTCTTCTACA  | 960  |
| TTATCAGCAA GTGTTTTCTT TAGTGATAC CAACTAACAT TTTTAAATGG AAGATTATAT   | 1020 |
| TGATTAGATG GCTCACTTTT GAATTTTCA AAAGAATTAT CTATGGCTTT ATTATTAAT    | 1080 |
| TCTACAAAAT TATTTATCCA AGATAAAAGT TCATTCTTTT CTCCCCGCAC ATATTTTTTC  | 1140 |
| CCAAGTTGTT TTTTATAATT ATGATTTTTG CTAGCCTTAT TTTTATTTAA ACCATCGTTT  | 1200 |
| TGATATGAAA TAAATAAAAA AATATTGATT AATAATATTA ATTTTTTTTC ATAAATAAAG  | 1260 |
| CCCTTAAAAT GGTTTTACAG AATATCTGCA AAGCCATAAT ACAAACCTAT AATAAATATT  | 1320 |
| AAATAGTAAT CATTATAAAA TTAAATATAA TTTAAAAATG ATTTTTTTGC AATATTTTGA  | 1380 |
| AATGTAAAT AATTATGTGC TATTTCTAAA CACAAGATTA TAAAATAACT TCTTGCTTTA   | 1440 |
| ATATCATGAT GGCTTTTAAT TGCTTCAATT AACTTAAATT ATGCAGCTAT CTTGGCTTTT  | 1500 |
| CTTTTTTATA AAACATTGTC TTTAGCAAGG TCATAAAATT ATGATCTACT AAAATGTATT  | 1560 |

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| CGGATTTATT AATATTAAGC AATATGTTAA AATAAATTTA AATACAGTAA TTAAATATAT  | 1620 |
| TATTGCTTTT AGGAGGTCAA TCTATGTTTA GAGGAAAAGA AATATATTTT TTGTTATTTT  | 1680 |
| CGTTACTTTT GTTTATATCA TCAATTATAA TTTCTCACGG AATAAAAAAC ATTGGCACCA  | 1740 |
| AAAATGAAAA TTATATTACG GTAAAGGGTC TTAGCGAAAG AGAAATTTTA TCAACGTCTT  | 1800 |
| CTAGTTGGGG GCTTAGATAC AGCTTAACCG GTAACACTAT AAATGATATT AATAAAGCAA  | 1860 |
| ATAATTTAAG CTTATCGAAG ATTAAAAAGT TTTTTTTAAA ACATGGATT AGCGAAGACC   | 1920 |
| ATATAAAAAAT GGGATTTATG GAATTTAATG AAGAGACTTA CAAAGAATCT CTTTATAAGT | 1980 |
| ATAGAGCATA TATATCTTTA ACTGTTTATA CAAAAAATAT TGAGAAAAATG GAAGCAGCAG | 2040 |
| AAAAAAATAT TGCTGAGCTT TATAATCAAG GTATATTAAT TAGTAATAGT GGGGGGCCAA  | 2100 |
| GATATTACTT TGACAATATT AATGATATAA AGCCCGAAAT GTTAGCAGAT TCAATTAGAA  | 2160 |
| ATGCGAAATT AGCGGCTTTG GAATTTGCAA AACATTCAAG TTCAAATTTG GGGAAAATTA  | 2220 |
| AAAACGCAAA TCAAGGATAT TTTGAATTTT TTCCAATTGA TAGAAGCTTG GGCGATCAAG  | 2280 |
| AACGTTATCC AAAAAAATA TTAAGAATCG TTACAACCGT TTCTTATTAT TTGGATTGAT   | 2340 |
| ATTTGGCGAA CTATTTTTTC TAAAAACCCA TATAAATAGC TTGCGGTTTC ATACCATGAC  | 2400 |
| GCGATCTACA CACCTAATTG AAGCATAGCT ATATATATTT ATTGCTGTAC TCTTTATCTT  | 2460 |
| GTTGGCTGCT TAGCTTAAAG TTGTCAATGT TTTTTCGTAC TCACCATCAT TTTTGTTTTT  | 2520 |
| AAGTTCGCTG CATAACCTT CAAAGTATGT TTCTACATTT TTCATAAGAG TTTGAATACA   | 2580 |
| TTTTTTAGTT TCAATTTTAC TGTTTGAATG TTCTTTAAAA GAAACGCTTA CCGAATTTTC  | 2640 |
| AGCATTAAAC TTATTTACAA CGGTTTTAAG TTCATTGTAT TTTTGGGTAC TTTTATCACC  | 2700 |
| ATTGCTACTT ACCGATATTT TTAGCAACTC ATCCAGTAAT TTCACCATCT TTAGTCCATT  | 2760 |
| CTTCAAATTA CTTTTGGCTG CATAGGTAGC ATTATAACCT ATATTAATTA GTGTTTGAAA  | 2820 |
| AACCGAATCA ATTTTTTCTG ATGAATTCTT TATCAATTTG ATTAAGCGAG GAGTATCCTT  | 2880 |
| TACTTCTATG TTTTACTTTT CCTTGGTATT TTTTGTATCT TCAATTTCTT TTTTGGATTT  | 2940 |
| TTCAGAGTCA TCTTGAGCTT CCTTTGCTAA ATTTTCTAGC TCTCCGGAG TTAATTTTGT   | 3000 |
| GATTTTTTCC GAACTTAGGC CTGTGGCTTC ACTTATCTCA TCTAATACTT GATCAATAGA  | 3060 |
| TGTTAGTGCT GATTTACTTT CTACAGTTGC TTCATCAATG GTATTGTCTA CATAACATTT  | 3120 |
| ACATGAAATT ATTAGCAGTA TAGATATTGC CAATATTAGT TTAATCATTT GTAAACTCCT  | 3180 |
| TTAGGCGGTG TAGTTATAGT GCAAAATATT AGCTTAGACT ATAAAAATCC TCAAAAGTGA  | 3240 |
| AAGTCAGGGA TAAGAAGATT TTTGATTTAG TTAACAATCT CCTTTCGGCG ATAAAGAATT  | 3300 |
| GAAGATTCCC TTATTGAAGA GTAAACCTAG CAGTAAATTT AAAATCATTT ATCCTAAAAG  | 3360 |

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| GATAATAGTA ATCCTAAAAA GTATACAAAA TTATAAATTA ATGAAATTTT AATGCTACTA  | 3420 |
| AAAGATAATG TTGACAACAT TAATTCGTAG CAATCCAAAT ATAAAGGCTT AAAAAGCTTAT | 3480 |
| AAAAATGGGA GAGCTTGTTA TTCCCAGCAG AAACAGTTTG TGAATTGGT ACAAATGTAT   | 3540 |
| AATCCAAAAA TGATCTTGAA AATTTTCTA ATTTTACTTT ATTTAGAACA TTTTAAGCTT   | 3600 |
| AGTAAAGCAA AAATAAATAA AATGCTAAAT TTGAACTCCA AAGACGAATT CTTTAAAGAA  | 3660 |
| AAAGAAAATA ATTTTATTGT AGCCGGTCTT ATTTTTTAAC TATAAAAGAA TTTAAAATCT  | 3720 |
| TACTTAATGA TTTTAACACA TTAAAAATA AAAAAGGAGA AAAATATTTT CTTTCTTTGG   | 3780 |
| CAAAGGGTTC TTGCAACTAT TTACTAAATG TGCGCCCTAT TTGTGAATTT AAAAAATCT   | 3840 |
| CATAAATGCC TATTAATTAA AAATATCCAA AAAATTGAGG TAAAATGGGG CAAATATTGA  | 3900 |
| AAAGTATATT CCCAATATCC CAATCATAGT GCCAAAATCG ATTACTAAAA ATAAACCCAT  | 3960 |
| GAAGTCTTT ATAACAAAAA AAATATTTTT TCCAACATTG CTTTCATAGA TATATGGACT   | 4020 |
| GCCAAATTCT CTAAATTTG AAATTATTTT GTCAATTTCC ATTTGTTTTT GAATTGTATA   | 4080 |
| CTTCAAATAA CTTTTAAGAA CTTGATAATT TCCAATTTTG TTATTCATAA ATTTCATAAG  | 4140 |
| ATATTTAAAA GTTAAAAATC AAAATAGTTG AGTGCTGATC AAGACCGAAA CACAGTCAAA  | 4200 |
| ATAAGAAAAA TTACATAAGA TTTGAAAAAA ATAAAAAAT TCTTAGAAAA GCTCAAAAAA   | 4260 |
| TATCTTGTGA ATCCAAAAA TTATAAAAAA ATCAAAGAAG GCGTAATGCC TCTAAGAAAA   | 4320 |
| AATTAGAATT TCCCAAACCA GAATTAAAAA AATCTTTACC CACAAGTTAA TTGTAAAGAT  | 4380 |
| TTTTGCAGTT AAGGTAGAAA TGAATTTTGA GCTATAATTC ACTAAATATA TTAAATATTA  | 4440 |
| CACTACAAGG AGGTGTTTAC AAATGAGTAA ACTAATATTG GCAATATCTA TACTGCTAAT  | 4500 |
| AATTTCTATG AAATGGCATG TAGACAATCC CATTGATGAA GCAACTGCAG AAAGTAAATC  | 4560 |
| AGCACTAACA TCTGTTGATC AAGTATTAGA TGAGATAAGT GAAGCTACAG GTCTAAGTTC  | 4620 |
| GGAAAAATC ACAAATTAAT CTCCGGAAGA GCTAGAAAAAT TTAGCAAAGG AAGCTCAAGA  | 4680 |
| TGATTCTGAA AAATCCAAAA AAGAAATTGA AGATCAAAAA AATACCAAGG AAAGTAAAAA  | 4740 |
| CATAGAAGTA AAGGATACTC CTCGCTTAAT CAAATTGATT AAGAATTCAT CAGAAAAAAT  | 4800 |
| TGATTCGGTT TTTCAAACAC TAATTAATAT AGGTTATAAT GCTACCTATG CAGCCAAAAG  | 4860 |
| TAATTTGAAG AATGGACTAA AGATGGTGAA ATTACTGGAT GAGTTGCTAA AAATATCGGT  | 4920 |
| AAGTAGCAAT GGTGATAAAA GTACCCAAAA ATACAATGAA CTTAAAACCG TTGTAAATAG  | 4980 |
| GTTTAATGCT GAAAATTCAG CGATAAAGGT ACCATTAGAA AATGGTAGTA AAATTGAAGC  | 5040 |
| CAAAAAGTGC ATAAAACTC TTATGACCAA TGTGGAAACC TATTTCAAGG GCGTGAGCAC   | 5100 |

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| CGAACTCAAA GATAAAAAAG ACGACAAATA TACTAAAATA TTGGCAGCTT TGAGTGAGGC  | 5160 |
| AGCCAATAAA ATAGAGAATG CAGCAATGGC CATACATTTG TGCTTTAATA ATTAAACTG   | 5220 |
| GGCATTTTGG TTTACAATTC TAATAAAAAAG AAAAATTCTA AAAATTTCAA CTAAATCCC  | 5280 |
| AAAGTAATTT TCTATTCAAA AAAACACCC GCAATCCTCT TGAAATTTTT TTCAAAGGAA   | 5340 |
| TTTTGGGGTT TTTATAAAAA CCATTGAATA TAATCAAATT ATTCCATAAT ATGAGGTAA   | 5400 |
| AATATAATGA ATAATCAAAA ATTTCAAAAA CCTCCTATAG TAAACAATAT CAAAAACCTA  | 5460 |
| GCAAGTTTGT TTGCAAACAA AACCAGAGTC TTTTTTTTTT TAATGACAAA TAGAACAAAC  | 5520 |
| ACTAACTTTA GAAGAGCCCA AACCATCATA TATACTATTT TCCTTATGCA TCTAAACAGT  | 5580 |
| GAAAGCAAAA TCAAAATATA GATAACATAG TGAATTCAT TCTTGATGAG CTTTCAATAA   | 5640 |
| ATAGCATTTT AAATATTGTC GAACTTTTG CAAAAAGAA TGAATTTTAA AATATAAAAA    | 5700 |
| CAATATTATT AGATATTATC GATACCGTGA ATGGAATTGA TCTGAAATTG ACTTTCAAAA  | 5760 |
| ATTTTTATGT CACAAGTTCT GGTTCATACT CAAAGATTCT TGTCTCAACT TTTATTAAAA  | 5820 |
| TTTTCTAATT CAATATGATT ATTTTTTTAG AAAGACCAA GGTATTTGCC ATGCTCCAGA   | 5880 |
| CCGATTATCA ATTTCATTGT CAAAAATCTT AACGAAATAT TCAAAAAAAT CAATCTTTAA  | 5940 |
| AAGGGATCCT CGACTATTGA CAAAGTTGCC GTTTTAAATT TTATAATTAG AACCGAAACC  | 6000 |
| TTTCTATTAA AACTGTCAA AATCACTTCA AATCATCTC TAAAATCTCA AAAAGTTACC    | 6060 |
| ATAGAACACA TACTAAAAAA TGTCTGCGGA TTTGAATATT GGGATTAAAT TTTGGAAC TA | 6120 |
| AAATTTATCA TAAACTTAAT TATTTTAAAT TATTTGATTA GATACAAAAA ATCTTTTGAG  | 6180 |
| TATGTCTATC AGTCAATCTA GTTTTAATGT CTTTTTTTTT AAACCTAGAT CATTTTTTCA  | 6240 |
| AATTTTGA TAAATATAAG AATTTTATA TTTATTATTA CTTAATTTAT CTTTGCTAAA     | 6300 |
| TTTCCTTAGT TTAGTTTAAA TCAATTCAAT CCCATTGAGT ATTTTACACC ATTTTATAAG  | 6360 |
| TTATAAATGC TATATAAAAA CCTTTTTTCA TCTTCTTTTC AGAAGATTGG CAATCGTTTC  | 6420 |
| ATTAATATTG CATGTCAAAT AACGTTATTA AAGCATTTCA ATTTAAAAA ATCTTCTATG   | 6480 |
| GAAATTCATT TTATGTAACA CTAATTTCCC CAATTTAAGT TTTATTTTGT TTGGGGCACT  | 6540 |
| ATAATAATAA TTTTATTAG ATTAATAATT TTCTAGAATT TAAAGATATA TTTGGATTTA   | 6600 |
| TTTTGTATTT AGCTTAATAT TGGTAATTAA ATAATTATTC ATGTTCTAAA TCCATAAAAG  | 6660 |
| ACATATAGTC CTTTATAGAT CAAAATATTC TTTATTGGGC CTATTATAGG CCATAATACA  | 6720 |
| CTAGGATAGA TATTGGTTTA CTACTATTCA CCGCATTCTT AAAAATGGAA CTTATTTTAT  | 6780 |
| TTATTCTGAA GAAGAGCTTA AAAACAAGAA AGTAAACAAA GTTGCTACCT ATTATAAAGG  | 6840 |
| CAATATTTAT CTTGCATCTA GATCTCTTGA CAGAAAGAAA AATGGAGCAT ATTACACCCC  | 6900 |



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|------------|-------------|-------------|------------|------------|------------|------|
| AGAAGATTTG | ACGGAATTTA  | TGGTTGTGTC  | TTCAATTGAA | GAACGGCTTA | AAACTAAATC | 6960 |
| CCCTTTAGAT | ATAAAAATCA  | TTGATAATTC  | TTGTGGATCG | GGAAATTTTT | TAATTTCTTG | 7020 |
| TCTAGATTAC | TTAACAGAAA  | AAGTGTGGTA  | CGAGCTAGAT | AAATTTGAAG | ATGTAAAAAA | 7080 |
| AAATTAGATA | TGGAGTATAG  | AAATGTTATT  | AATAAAGCTA | AAAAATATAA | TATTCAAGAC | 7140 |
| AGTATAAGCC | GGAAGACCGT  | TCTTAAAAAG  | ATGTTGCTTG | GAAATGTAT  | TTACGGAGTT | 7200 |
| GATATTGATC | ATATATCTGT  | ACAAATCGCA  | ATGTTAGGTT | TATGGATTAA | TACCTTTATT | 7260 |
| TTTTTGAAAC | GCCACTAAGC  | TTGATTAAAC  | ATCACATAAA | AGTAGGAAAT | GCCCTTTTAG | 7320 |
| GGTATACCAA | GGATGAATTT  | TTGAATATTT  | TGGATAACGA | ATTTAGAGGT | AACTGCTTGT | 7380 |
| CAGTTGTAAA | AAAGATTAAC  | GAAATTATGA  | CTATTTTAGA | AGATATCCAT | CAAAAAATCA | 7440 |
| AAGGTATTAA | TTATACCATT  | AAAGAAGATT  | TAGAAAAATC | TAAAAAGATA | TACAAAGAAT | 7500 |
| ATCAGGAAAA | TGAAAATATA  | AATAATTTAA  | GAATAATATT | TTCTTTAATT | AACTTTTATT | 7560 |
| CGTTGTCTTT | TGATAAATCT  | TTGAATATAA  | AATTTAGTGA | TATTACAACC | GTAATTAATT | 7620 |
| TGATTGGAAC | TATTTTAGAC  | AGTAAAAATTT | CTAGTGAAGA | TAAAGAAAAA | ATAGAAAAAA | 7680 |
| ATTAGAAAAT | TAAGTAGTTA  | TTATAAATTT  | TTTCACTATG | GAATTGAGTT | TCCAGATATT | 7740 |
| CAAGAAGGAT | TTGATATTGT  | AATTGGAAAT  | CCTCCATGGG | AGAAAACATA | GTTTGATGAA | 7800 |
| TCTGAATTTT | TATCAAAAACA | TGTTCTTAAC  | TACAGAAAAC | TAAGCATAAA | AGAACAAAAT | 7860 |
| AAGATAAAAC | AAGAACTACT  | TAGTAAAGAG  | AATCATCCTT | TGAGTATCGA | GCGCTATGAG | 7920 |
| GAAAAGAACA | GTTTGAAAAC  | TTTGAATAAT  | ATGTATAGGT | TGGTGTTTCA | AGAATTTTCT | 7980 |
| AGTGGGGGGG | TCCGAATCTT  | TTTAGATATT  | TTACGGCTTT | CAATTTGAAG | CTAGTGAAGC | 8040 |
| CCGGCGGCAA | CTTAACCTTAT | TTGACTCCTT  | CCAGTTTGTG | GAGCGAATCC | GGCTCTAAAG | 8100 |
| CACTGAGGCA | GCATATATTT  | TCAAATTACA  | AGCTTAATTA | TATATACCAG | TTTGAAAATC | 8160 |
| AGAAAGGGTT | TAGGGCCATG  | ACCCCTGGCT  | TCAAATTTGC | AATATTTTCA | ATCAGTAATA | 8220 |
| GTAAAGAACC | CACAACGAAA  | TTTAGAGTAA  | AATTTGTTAT | CCAGAGTAGC | GATAATATCA | 8280 |
| TGAAAGAAAT | AACCAGTGAT  | CTGAAAGAGG  | GTAATGAAAA | TGCTTATAAG | GGAATCGAAT | 8340 |
| TGGATATAGC | TCAAATCAAA  | AGGCTATCTC  | CTATTCAAGA | GTCCATAATA | GAATTTAGAG | 8400 |
| ATAGCGCTGA | GTTACGCTT   | GTTAATAAAA  | TGTTTAGTCG | ATTTGATACT | CTTATTCAAG | 8460 |
| AGTATATTGA | TTTTAGAGAG  | GGACTAAATT  | TAACAAAGTA | TAAGGCACTG | TATAAAGAAT | 8520 |
| ATAATAATGA | AAAATTTATA  | TTTCTGTATT  | CTGGAGCCAA | TATTCACCAA | TTTAATTCAA | 8580 |
| GATTTTTTGA | AGATAGAGCT  | GCAAAAGAAA  | GTTCTAAATT | ACTATGGATA | GATAAAAAAG | 8640 |

|            |             |            |            |            |            |       |
|------------|-------------|------------|------------|------------|------------|-------|
| ACTTAGAAAA | AGTATTAATG  | AAAGACAGCC | AATATCAAGC | CGAAAGAGTA | TTCTATAGGG | 8700  |
| TAATTGCAAG | TAACACAAAT  | GAAAGAACGA | TGATTAGCAC | ACTTTCTCCT | AAAAATTGTT | 8760  |
| ATTGCGTGAA | TTCAATATAT  | ATAAATTATG | AGGAAATACC | AATATCACTT | TATAAAAAAT | 8820  |
| TATTTATTAT | ATCAATTTTT  | AACTCATTTG | TGTTTGA    | CTT        | TATAATTAGA | 8880  |
| ACTCAAATGT | GCTAAATCA   | TGTTTATATC | AATGCCCAAT | GCCTCAACCC | GAAGAGGATG | 8940  |
| AGATTTTAAA | TAACTCTTTA  | TACTTAACTT | TAGCTAAAA  | CACTTCCTTG | CTAATAGTTA | 9000  |
| AAAATGATCC | CGATAACTTT  | AAATATTTGC | TTTACTTAGA | ATATTTTGAG | TTTGGCAAAG | 9060  |
| AAGAAGTTGA | CAAGATGTTA  | AATCTAGACC | CCAAAGATGA | ATTCTTTAAA | GAAAAAGAAA | 9120  |
| ATGAAAATAA | TTTCATTGTG  | GCCAGTCTTT | ACTCGTTAAC | CAAAGAAGAT | TTTGTA     | 9180  |
| TGCTTAATGA | TTTTAAGGTT  | TGCAAAAACA | AAAAAGGAGA | AGATTATATT | TCATCTTTAA | 9240  |
| TAAAAGGATA | TGAGAATTAT  | TTAAGAAGAA | TGGATAAGCA | TAATGCAGCG | TAAATAGATT | 9300  |
| TGATGAGCCT | CTGTTTGTGA  | AAGTCTGAGT | TTGGTACACA | CAGACACTGA | AATTATTTAA | 9360  |
| TTTACTTTGT | AAATTTATTT  | CCACCTAAAT | TTCATAGAAA | TTATAAGTGG | AATATCTTTT | 9420  |
| GTTATTTTTT | ATTGAGACTT  | TCTAAAACAG | TTTTTGCATG | TTTAATAAGC | TCTTTTATTT | 9480  |
| CTTCCTTTCT | CACCATTTGGT | TCAATTCCTT | TAGAGGCAAA | AGATTCTAAA | TTACTTAAAG | 9540  |
| CACTTCTTGC | GTCACCTAAA  | GCCTGTCTAG | ACAATTTTAA | TGCATAAGAT | CTATTATTTT | 9600  |
| TACTCTCTAA | TCTTTTAATA  | ATGCTTTCTT | TTAACCTTTT | CTGAGCGTTG | TCAAAAAAGA | 9660  |
| AAGCCGCAGA | GCTTATTTCA  | TTTTCTGCCA | TATCAATCAT | ATTTATAAGC | TGCTCAAGTT | 9720  |
| CACTATCTAT | CTTTAAATTA  | TTTTGCAACA | ATTGTGTAA  | TTTATTTATC | TTATCTCTAT | 9780  |
| TGTTCTTAGG | ATTCTCCATT  | AATGATGTTT | TTTTATTGTT | AATCTTTCCA | ATTACATCAT | 9840  |
| ACAAATCAGC | TTTTATTAAA  | GCATATTCAT | CTTTAATTAC | ACGTACTTCT | CTAATTAATT | 9900  |
| CAGAAAATTT | AGAGTTTTTA  | AGAATATTTT | CTTCTAAATA | TTTAATTGCT | GCATCAGCTT | 9960  |
| CCTTTTCTTC | ATTAGTAGAA  | GGGATTAAAT | TCTCCTTTTT | TGTCTCTTTT | TTTTCAGTAT | 10020 |
| GCGCAATTGA | AATATTTGGT  | ATATTAGCCT | TATTCCTTGG | TGATTCTGAA | GGTATTATAG | 10080 |
| GCTCTATAGG | ATTAATTAAA  | TCCTCATATT | TCCGTTCTCC | AAAATTTTTA | GTAAAGCTTT | 10140 |
| TTTGCTTTTC | TTGATTATTA  | TATAAATCAT | TAAGACCATC | TTCTTGAACA | CTATCCGAAA | 10200 |
| CTTCTTTTAC | ATTATTGTTA  | TTTTTTTGTT | CTTTGTTACT | AGATAATTTG | GAATCTAGAT | 10260 |
| TACAAGACAT | CAATCCTCCC  | ATTAATAATG | CATATAAAAA | CAAACCTTTT | CTCATAAAAA | 10320 |
| TATTCTCCTT | TTATCAATTA  | AGAATAATTA | TTATAAATAA | TAATTATTCT | TAATTGATAT | 10380 |
| TATATATCAA | TTTGTCTAA   | TTACAATAAA | TTGTAAATAA | AAATATTTTT | CAAAAGTATT | 10440 |

TAGATATTTA AGATTTTTGT ATAACAAAAT GTTAAGTGAA AAGATTATAT AAATTAGTAG 10500  
TT 10502

(2) INFORMATION FOR SEQ ID NO: 12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9842 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GAATTTAGTG ATATTGCAGA TATAATCAGT TTAATTGAAA ATATTTTGGG GAATAAGCCT 60  
TCTAGTGGGG ATAAAGAAAA AATGAAGAAA ATTAGAAAAT TAAGTAGCTA CTATAAAATT 120  
TTTCCACTAT GGAATTGAGT TTCCAGATGT TCAGGAAGGA TTTGATATTG TAATTAGAAA 180  
TCCACCATGG GAGAAACTA AGTTTAATGA ATCAGAATTC TTCTCAAAAC ATATTCCTAG 240  
CTACAGAAGA CTAAGCATAA AAGAACAAAA TAAAATAAAG CAAGAAATAC TTAGTAAAGA 300  
CAATTATTAT TTGAATACTG AATACAATGA AGAAAAAGC AGTATAAGCG CTATTAATAA 360  
ATATTTATAA AAGTGATTTT AAAGACTTTG CTAGTGGTGG GGATCCAAAT CTTTTTAGAT 420  
ACTTTGTTGC ATTTAATTTG AAATAATAA AACCAGGGGG TAATTAACT TATTGGTTC 480  
CTTAGGCTCT TTGGAGTGAG TCTAGTTCTC TATGTTTAAA GATTTGTCAA AAGATAATAA 540  
ATAAAGTTTA ATTAAAGAAA ATATTATTCT TAAATTATCT ATATATTCAC TTTCCTCATA 600  
TTCTTTGTAT GTAAGTAGCA ACTTTGTTTA CTTTCTTGTT TGCAAGCTCT TCTTCGGTAC 660  
GAATGAGATA AATCCCGTCT TAAATAATAC GATGAACAGT AGTATCTGCA ATTCCTTAGGC 720  
CATATTCAAG TAGCGTTTCG TATAATTCTC CAAAACTTT GGGATCTAAC CTTGAATACT 780  
CTACAAATTT TTCATCTTTA ATATTTTTTT CTTCAAAGAA GAGTATTTTA ACAAGTATTT 840  
CTTCAAGTTC ACTAATACTT AGCAAACTTT CATTATTCAA ATATTTAACC TTATCTTCTA 900  
CAAATAATCC TCCATTAAAT ACGGGGAAC TTAATGAATC ACTTCCCTTA TCAAGTAAAT 960  
TAAAAATTGT TATTATTTTT TATATCCTAA TTTCTTTTTT GTATTTTAAT CATAAAAAAA 1020  
TATCTAAAAG ATATAGAAGA TCTGTATAGC TTGTTTCTT CTAAAATTT CTTAAACTG 1080  
TCGTTGTCTT AAATATATGC AATAAAAAAT ATTCCTAAAA TAAAAATAAT TGCCTCTTTA 1140  
AGTATGCTAG CCAAATATA ACGAGTAAAT TCTTTGTCTG ATACTTTAAA TTCTTTGTCA 1200  
TATATATTTT TTTTACAATT TTAAATACTA TAGAGTCATC AGGCTTCTCA TAAAGCATCT 1260

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|-------------|------------|------------|------------|------------|-------------|------|
| CTCTAAGAGT  | TTTTTGAATT | ATATCTTTTT | CTTTAACTAT | TTGCTCTTTT | TCAACTGCTA  | 1320 |
| TTACATTACT  | TGTTTTTAGG | TAGCTTTCTT | TTCTTATAAT | ATAGCTAAAT | AAAATAAACC  | 1380 |
| ATTCTTGTTA  | TTTGTATTCT | TTTTTGCTT  | CAATTTTAGA | AAAATCAAAT | TCAATATATC  | 1440 |
| TTTTTCTCC   | ATAAAGCTT  | AGATTTATCA | TATAAGCTCC | ATACCTTCC  | ATTTGAAAGT  | 1500 |
| ATTCCATAAT  | GTTTTTGATA | TTGATTTAGA | CATCTATATA | GCTGATCTTC | TGCTTCTTTT  | 1560 |
| ACCTTATCTT  | TAGCATCAA  | ACTAAATACT | GGATGCTTAA | CTTCCGCTAT | AAGTAAGATA  | 1620 |
| TCTTCAGTTG  | AAAATATGGG | AATTATTTTT | TTAGCTTCTT | CTAATTTTTT | ATTAATAATCT | 1680 |
| ACTTTGTCTT  | TATCATTTTC | AAAAAGTAGT | ATATCTACTT | TGGATTTTAC | TCCTTCTATT  | 1740 |
| TGCCCCACCTT | TTTGTGTTC  | TACTGAATAA | TTTAGTTCTT | CGAAAATAGA | TTTTAGTAAA  | 1800 |
| GACTCTATAT  | TTGCTTCTGT | TGAATTATCA | TCTATTGAAG | AAAGTTTATT | TTTTATAAAA  | 1860 |
| ATAAAAAAGT  | CTTTTAACT  | ATTAATACTT | TCTTTTCTTA | TAAAGTCTCT | TTACAGTTCT  | 1920 |
| TTATAAAGAG  | ATACATTTGG | ATCATTTGTT | TTTATAATGT | AATCGGCTTT | CATTGTTTAT  | 1980 |
| GTTTAAACCA  | TCATGTTATT | TACAAATCCT | TTTTAGCCCT | TCTTGATACT | CACAATACTC  | 2040 |
| TTCTCTAAGA  | TTAGTTTTTT | TTAATTAAAA | AACTAATCT  | TAGAGCAAGT | CGACCAAAAC  | 2100 |
| TTATTTTAAT  | ATTTACTTGA | CTATAAATAA | TTTATATTTA | GAATAAGCTT | TTAACTTAT   | 2160 |
| TTCTCACTTT  | TTATCAATTC | TCAATTAATT | AGATTTATTA | TTTTTTTATA | AGACACCTCT  | 2220 |
| TGATTAAAGA  | GTATCTAAAA | AACACTTTTT | TCTTTAATCC | GAAC'TTTCT | TAAACGCTCT  | 2280 |
| CCAATTTGTG  | AAGCATAAAC | AAAAAAATGT | TTTTATCCTT | TCATTTTTTA | AAATTACAAT  | 2340 |
| TATAGAGTCT  | TTTGTTAATT | TCTTCTTTAA | AAGCATCTTG | CTCAGAACTA | TATAAGCAAC  | 2400 |
| AAAGCTGTGA  | AAAATTTTTA | AAAGAACTTA | TCAGTGCAAA | AACAACGCAA | GTAATAACCC  | 2460 |
| GGTTTTTATT  | CATAATAATC | CCCTCCCAA  | ATTAAAAAAT | AAATCAAAGA | CTTTGATTTA  | 2520 |
| CAATTTTTTA  | GCAAGTAGTG | AAAGTGAAAA | AACAAATCAT | CCTAAATATG | TAACAAAAAA  | 2580 |
| TGAAAATAGG  | CTTAATAAAT | ACCAAAGAAA | ATTATCAAAA | AACAAAAAGG | TTCTATTAAT  | 2640 |
| ATAAACAAAT  | CTAAATTAAG | AGGCTAGGCT | ATATAAGAAA | ATTTCAAATC | AAAGAAAAGA  | 2700 |
| TTTTTTACAT  | AAATTATTAT | TTCTTTACTT | TGTAGATAAT | TATAAAAACA | TAGTGATAGA  | 2760 |
| GAGCTTATTA  | ATTACTCGGA | CATGCAACAG | GGATTTAAAG | TTAAAAAACC | TAGCATTCAA  | 2820 |
| TGTCAAATTC  | CAAAATTTAG | ATTTAAAAAT | GAAAAAAACC | CTTTTCGGGG | CATCTTTTCG  | 2880 |
| ACATTAAACT  | AGGCAAAACA | ACTTAAGCCT | ATTAGAAGTA | ATAGAGTATC | ATTAATTAAG  | 2940 |
| CATTAAAGTC  | AATAACCCTT | GAAAATTTAT | TTATTCCTTT | TCTTTTLAGA | ATTATCATAT  | 3000 |
| TTAATTATAA  | TCTCCGATAA | AATATCTTTT | TTATTTTTTA | AAATCTCCTT | TAAAACAAAA  | 3060 |

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| TATACTCTTT TGGTATCTTT TCTACAAAA TCATATAATT CATTATCTTT TATTAAAATT   | 3120 |
| CTAATTGGGA TATTTTCTTT GTTGT'TTGTA TTAATATCTT CTTGATTTAT TTCTGATAAC | 3180 |
| CCTTGTTTTT GTATGGCGTG ATATATGCTA TTAAACCCCG CTTCTTAAT TTTATCAATA   | 3240 |
| GAAATAACAC CTTCTAAAAC CTTTTCATAA ACTTTTAAAT ATGTATAAGC CTGGGTTTTT  | 3300 |
| GCAATTATAA AAGATTTTAT AAATTGTTCA AAGCTTTTAA AACCATCATA TTTGTAAAGC  | 3360 |
| TTTTTTTGTT TAATTTTATA TAGAATTTTC ATTCTTTGAA TTTTATTGTC AATATCATCT  | 3420 |
| TTTAAATTAA GCTTTAATTG GTCTTTTAGA TCATTATAAA TTATTAAATT TTCATCTTGA  | 3480 |
| TTATTATTTA AATTTTGAAT TTTATCAATA AAATCTTCAA ATCTATCATT TAAAATGATC  | 3540 |
| TCTTTTTTAT TTTTCTTTTT ACTTTCTTTC CCTATCATTT TGCACCTCCTA TTGCTTTTAA | 3600 |
| AGCAGATATT TATATGTATT TAACATTAAC TTGCATTTAA AAAATAAGTT TAGACTAATA  | 3660 |
| ACATGAGACA AAAACACATA ATAAATCTAA TATCACTAAT ATATGAATAA TTATTGACAC  | 3720 |
| AAGTTAAAAT TTGTGTCAAT AATTATTCAC AAATAAAATC GTTCGGTTCT GAACAATACA  | 3780 |
| AGAGGATATT TCTAAATCAA AGATTATATA AATAGTGGTT AAAGAAAATC TATTTTTTTA  | 3840 |
| GATTGTTTTG ATTATTTACA CCCTGGTTGT TATTTATTAT TCTATTCTTA ATTGAGCCTA  | 3900 |
| TTAAAAAGCT TCATTCTAGC TACTGCATAA TAGTAAATGC TTTT'TTGTC AAAAAATCACC | 3960 |
| CCCTCTCCCA ATTAGCTTAA ATATCTTAA AATGGTTTTT GGCTTTAATT TTAACAGAAG   | 4020 |
| ATTGAAATTT ATTATTTTAT ATACTATAAT TTTTAACTGT AAATTAACAC ACATTAAGCT  | 4080 |
| GAGGGACAAA AAATGAAAGC CGTTATACCT AGTTATAGCC ATCAAATTAA TACCAATAAA  | 4140 |
| TCTAATAAAT TACTTTCAA AGACTGTAA CTTAAAAAA TAATTTCCGGT TATTATTTAC    | 4200 |
| TTAAATAAAG AGTTTGAAAA AAAATATAAT GAATCAATAC ACAGAATTCA TTTTGACCCT  | 4260 |
| GAAAACTAA AAGAAATTCG GGTTTCATCAT CAAGGAGATA TACTTCGAGT GCTAAACTCA  | 4320 |
| AATATACATA GAGAGAATAA AAAAGAACT ACAATTAATA CTCTAAGAAT AGATTTAAGA   | 4380 |
| TTTTTGTTA AGCTAAAAGC ATTGGAAAA AGAATGCTAA CATTTTCAA TAAC'TTCGGA    | 4440 |
| GAATTTAGAG GAAAGCTCTG TATATATAAG GCATCCCCTA TTGCATATAA ATTGATCGAC  | 4500 |
| ACATATTTTA GCAACACCAA ATCAGACTTA ATTAATAAAG TAAAGAAAGA AAAAGATGTT  | 4560 |
| TTAAGGGAAA AGAAAGAGCA TTGTAAACCT CAAAATATCA CTGAAAATAT CACTGTATAT  | 4620 |
| AATAACAAT ATATAAATAT ATATAATAAG AATTCTATAG AAACTCTTT TTTAAAAAA     | 4680 |
| ATTAAATCCA TAGTTTCTAA TACAAAAAC CCAATTAAAA CACTAAAAA CACTTTATTA    | 4740 |
| AACTATAAAG ATTTTAAAA TTATTTAAAA TATGATTATG AGGTAAAGA TATTAAAGAG    | 4800 |

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| TTTTTCTTGT CCAAATTAAA CATTTATAAG CATAAAATCC ACTTTATGAG AAAAATTGCA  | 4860 |
| CCCTATAAAA CCGATTTTTTA TACTCTTGCA GGAGAAATTA AAGATATTTA TACTACTAAA | 4920 |
| TGGAAAGCAG ATAAAAATAAC TAGCTTTTCA GGACATGCTG GTACAATAGC CAATAATATT | 4980 |
| TTATCTAAAA TTTTGTCAAA GGGATTGAAA TTTGAGTAAT TTGCTTGAAA AACTCAGAAA  | 5040 |
| CAAAAAAAGT GATATAGAAA AAAGAATTAT ATTCAATAGA ATTGAAGAAA TAGATAGTAG  | 5100 |
| AAAAATATAC TGTACAAAAA TATTTAAACA TTTAGTTAGT TTTAAAATTA CAAACAAAGG  | 5160 |
| AAAAAGGCTA AGACTTACTT TTCAAGAATT TAATAACAAT GAAGATTTTC TTTTCTTCAA  | 5220 |
| TTTATTTTCTT TTAAGAGAAA ATGATAAGTT CCTAGAAATA AAATATAAGC ATGATAAACT | 5280 |
| TGATAGACCC TTTTTTCTTA AAAAAGAAAA TAATAAACT TATGCAATAA AAAAGCTCTA   | 5340 |
| TTATATAGAG TTTGTCTTTA AAAATGGCTC TATTAAAGCC TATGTTCAAT CTTTAAGAAC  | 5400 |
| ACTTTTAAGA AAAAATAAAG AACTACCGA GTATTATCAA TTCAATTTAT CACATTTGAA   | 5460 |
| AAAAATGGAA AAAAAGTAT ATGAATTTTA TAATAAAAAA CTAAAAGATG GGGGGGTAT    | 5520 |
| AAATAAATGG ATCAAAAAAA ACCAATTGTA ATTACACTTG CAAGTTTAAA AGGAGGAGTC  | 5580 |
| GGCAAAAGTT CACTTTCTAT ACTTTTTTCT TATGTTTTAA AAGAATTGGG GAAAAAGTG   | 5640 |
| CTACTGATTG ATTTAGATCC ACAAATTTCT TTAACCTCTT ATTTTAATAA GTATATTTCA  | 5700 |
| AGTATTAAAA AGTATAACGT TTATGAATTT TTAAGGAA ATACGTATTT TGATAAATGT    | 5760 |
| GAAAAATAAAA TTAATGAATT TATTTCTATA ATTCCCTCTC ATCCTATTTT AGAAAAATTT | 5820 |
| AACACGGATG ATATAGATTA TAAAGAAATT ATTTTAGAAT TTAGATTAAA TAAGAGCACC  | 5880 |
| AAAAGTTTTG ATTTTGATTA TATTATAATA GATACTTCTC CTAGTAGGAA TTTCTTTT    | 5940 |
| AAGAATGCTC TAAATGTTAC AGACCATATT ATAATCCCAG TTCAAGTAGA AAGATGGTCA  | 6000 |
| ATAGAAAGCT TTTCTATTTT AACAGAAACA ATAAATAATA TTCAGATCAT TAAAAACAAA  | 6060 |
| AGATATAATA TTTCTATTAT AGAAAACCAA TTTATTAAAA ATAGGAATAC CTAAAAGAG   | 6120 |
| GTAGAAGAAG TGCTTTATGA AAAGTATGGC AAATATATAA AAGGTAAAAT TCACTTTTCA  | 6180 |
| AATAGTATAA AAGTTTTTAT AAATGACCTT TTAGAGCCTT CTTTGAAAGA AATTTATTAT  | 6240 |
| AGGGAAGCTG AAAGCGCTTT AAAAAATATA CTGTAAATCG CTATTCTGCT AATTGCTGGA  | 6300 |
| TTTTAGAAAT AAAAATTATA AAGAATTTTA CCTAATTGGT TTTGATGATC TAAAAATAT   | 6360 |
| AAAATTAACC ATAAATTAAT TATTTTTATT GTACGAAGTT GAATTTTAGC ATCAAAAAAC  | 6420 |
| TAATTGATTT AACTTATAA AAAATTCTAA ATATTTGAAT TAGAAGCTTA TCAATTGTAG   | 6480 |
| TATTAAAAAT ACAAATCTAA AATTAAGTGA TATTCTTTAG ATTTACAGTG GCTTTAGCAA  | 6540 |
| GTTACATTTT AATAAAATAA AGAAGCCCCT ATTTTLAGGG GCTTCTTTAT TTTATTGAAA  | 6600 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| TGTAGTATTT | TAGTTTCAAT | TGTTAGGTTT | TTCTTTTCCA  | AATATTTCTT | CTTCTAATTC | 6660 |
| TTCGTCTTCT | TCGTCTCCAA | AATCTTCTCT | ATCTAACATC  | TCTTGCTCTT | GTTCTGCCTC | 6720 |
| TAATTCTGCT | TCTATTCTGC | CATCAGGATC | ATCTACAAAT  | TCTGCATCTC | CGCCGCCCGG | 6780 |
| TATCGGACTT | CCTAATAGTG | GTTTTTTCTT | GCTTTT TAGT | AAATGTTTTT | TAAGTTCAGA | 6840 |
| TAATCGAATT | ATATATATCT | TATTATCTTT | AAATTCTAAT  | AAAATATGAT | CATTATGTTT | 6900 |
| TTTTATGGAA | GTTAATTTTT | TATTATTATT | GCCAATATTT  | ATAACTTTTA | AAGCTGTTTG | 6960 |
| AATTCCAAGA | AGCATGGCTT | TTTTAAAATC | ATATCTTCTT  | TTAGATTTTA | CTTTAAAAAG | 7020 |
| CTCTTGATTA | TTAATACAAT | CTTTAATTAT | AATTCTGCTA  | TCTTTTCTT  | TTATGCAAAG | 7080 |
| TGTAGTGTTA | GTACCTTTTT | CAGTGTCTAT | ATTTTCTTTA  | TTGATAGGAT | TTGAAACCGA | 7140 |
| TTTAGCGGGT | ACTTTAAAAT | TGTATTTTTG | GCGTGATCGA  | GAATCTTTTG | AAAAAAGATT | 7200 |
| GCATGAAAGC | AATAATAAAC | ATAAACTTAA | ATTGATAATA  | TATTTTTTCA | ATTTATAACT | 7260 |
| CCTTAATTTA | ATATTTACTT | TATTTAAAAG | TATATGTTTA  | ATTTTTTATT | AACTATTTCC | 7320 |
| CAATAATATT | GATATTATAA | TTAATAAATA | TCTTTTTTTA  | AAATAAAATT | TTTATAGAGG | 7380 |
| TAATAAAAAA | TATAAGTGCA | AAAATATAAT | CTCATAAGGA  | TGCTATTAAA | AGCGGAGCCG | 7440 |
| AAACAAAAAT | GATTTTTTAT | TGATTTATTT | TTAGATGTAA  | TGAGATAAAA | AAAATTTTAC | 7500 |
| TAGTTTTTAT | ATAAGCTCGG | GTTCTAAGGG | AGCTAAAGAA  | TTAATTAATT | TGTTTCTTAA | 7560 |
| GATTAAGACT | TGGACAAACA | ATAGTTTATT | TTAACCGGGG  | GGTATAAATG | TTATTTATTG | 7620 |
| AGAAGATGCA | TCAATATTTA | CACATATGGT | TTCCATAAAT  | TAAATCAATA | GTAACGTTTT | 7680 |
| GCGTTATTAC | AGGATATTAT | TTATGGTGCT | TGTGCCTCCA  | AACAGCAATC | AAAACTACT  | 7740 |
| TTTTGCTTAA | GGATTTAATG | CATAAAATTT | TTAAAATAAA  | AAACTGCCAG | ACACACAATT | 7800 |
| AATAATCCTT | AATAGATAAT | AACAGACAAA | AACTTTTGA   | GTCCTTCTA  | CAATTTTATC | 7860 |
| GCTTAATTTT | TTAATCTTTT | TTTGCCTTTT | TATAATAATT  | TAAAATTAAT | AATCTACAAA | 7920 |
| ACAAAAAGAA | TCAACATCAA | ACAGTCCTTT | ATCATTTATC  | TTTAAATGGG | GAACCACCGT | 7980 |
| TAAAGACATA | AAAGACAAAG | TCATTAGAGG | ATCATCAAGC  | CGAGAGCCTA | AAACATTTTT | 8040 |
| ACAAAAATCA | TTTAATTTTA | TATATTGTGA | AGCTACTCTT  | TCGGCTGAAA | GAGTACTCAT | 8100 |
| TAATCCAGAA | ATAGGAAGTT | CCATTATTAT | AGTTTTTTCA  | TTGTTTAGTG | CACATAAACC | 8160 |
| CCCCTTATTC | TGGATGATTG | TATTTGCCGC | TTTACACAAA  | TATTCATCAT | TGCTTCCAAC | 8220 |
| AAGTATGATG | TTGTGAGAAT | CATGAGCAAC | TGTACTTCCT  | ATGGCGCCGT | TTCTTATTC  | 8280 |
| AAAATTTTTT | ATAAATCCTA | TAGAAATTTT | ACTATTGTCT  | TTATATCGAT | TTATTATAGC | 8340 |

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|------------|------------|------------|------------|------------|------------|------|
| TATTTTAA   | ATATCCTCGG | CAATATTAGA | TTGAAAATCT | GGGGCCAATA | AATTGCTATC | 8400 |
| AATCATAGTT | TTATGAGTAA | TAATTTGGTT | GCTGATGCAT | TTGATTACTG | GGATCATCTT | 8460 |
| ATTTTtagTG | GAAAATTTAA | AATCCGAAAT | AGATTTTTTG | CTACAATTAA | AATTGTTTAT | 8520 |
| AGGAATTTCA | TTTATTAATG | GGATAAGTGA | AATTCCATCA | TTAAAAACCA | ATTTACCATT | 8580 |
| AATGTAGGTT | TTATTTATTT | TGAATGTTTT | GATATCTTTT | GTAATTATAA | AATCAGCAGG | 8640 |
| ATCTCCTATT | CTTAACAACC | CCACTGGGAT | TTTATAGTGT | AAAACCGGAT | TAATGCATGC | 8700 |
| TATTTTCAAA | ACATCAAAAA | AGTCGTGCCC | ATGCTTTATT | GCACGAGCTA | CTATTAAATT | 8760 |
| AATATGTCCA | TTTAGAATGT | CATTTGGGTG | TGCATCATCA | AAACAAAACA | TTAAGGAATC | 8820 |
| ACAATATTTT | TTAGAACATT | CACTAATCAA | AGGATGCAAA | GATTCAAAAT | TTTTAGCGGC | 8880 |
| ACTTCCTTCT | CTAATTAGTA | TTTTCATGCC | CAAAGATAAT | TTATATCTTG | CATCTTCTAT | 8940 |
| TGTAAACAT  | TCATGATCAG | TGCTAATGCC | TGAAGATGCA | TACTTTAAAG | TTAAATTGGG | 9000 |
| GGACAAACCA | GGAGCATGCC | CATCAACAAC | CTTATTACGC | TTAATGCAG  | AATTTATTTT | 9060 |
| ATTTATAATT | TCAATATCTT | TGTAAATCAC | GCCTTTAAAA | TCCATTACTT | CAGCCAAATA | 9120 |
| GTAAATATCA | TCTAATTTCA | TCAATTCATC | TATATCTTTA | TCATTTAATA | CATATCCTGA | 9180 |
| AGTTTCAAAT | TCTTGTGACA | ACGCTGGCAC | ACAAGAAGGA | GCTCCAAAAA | AAAATTTAAA | 9240 |
| CTCGGTTTTT | TTAGAATTAT | TTATCATAAA | ATTGATGCCA | TCAATACCAT | TAACATTGGC | 9300 |
| TATTTCATGA | GGATCGCTTA | TTGTAGCCAC | AGTGCCGTGT | GCAACTACTA | AATGAGCAAA | 9360 |
| GTTTGATGGA | ACAAGAAAAG | AACTCTCTAT | ATGTATATGC | GCATCAATAA | ATCCTGGCAG | 9420 |
| CACATATTCA | TCCAATGTCT | CATTAATTTT | TTCTATGCTC | GCAATATGAC | CGTTTGCAAT | 9480 |
| CGCTATACTA | GCTGGATAAA | TTTCTTTATT | AAAGATGTCA | ATATAATTAG | CTTCAATTTT | 9540 |
| AAATAAATCC | ATTATTTATC | CTCTCCTAAA | AACTTTTTGT | TCATAATATA | CTCTACCTTA | 9600 |
| AAATCTTTAA | ACTTAAATTA | TAGCGCAAAG | TGCCAGTATA | TTAATTGCA  | ACTGTATTTA | 9660 |
| GAAAAAATAA | AAATCGTCGA | TATTTGTTAT | ATACGATAAA | AATCGAAGAT | AATTTTTTGG | 9720 |
| GTAAATAAAA | TAGAAAAAAT | TTAAATAAAA | AATAGCTAGC | AATTCTAATT | TTGATACCAG | 9780 |
| CAAAGATTAT | GTGGTAAAGT | ATCAAAGGGG | ATCCTCTAGA | GTCGACCTGC | AGGCATGCAA | 9840 |
| GC         |            |            |            |            |            | 9842 |

## (2) INFORMATION FOR SEQ ID NO: 13:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9542 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

|  |      |
|--|------|
| TGAAAACCCT AAGGATGAAC TTGCCGGGGA TTGATAAAAA TCTTAAAGGT TATGGCTATA  | 60   |
| AGTATCAGAA TTTCAACGAA ATAGCTAGAG AAATTAAAAA AGTTATTGAT AAGCACAATT  | 120  |
| TATGCCTTGA TTTTAAGCAA TTTCCGACTT TTACAGTTGT GGGGGAGCAA CAAGTTCTAC  | 180  |
| ATGTTGTTAG AACTACGTTT TATAGTACAA ACACTGGGTA TAAAGACTCC TTTGATACGC  | 240  |
| CAATACTTAC AGAAAATTTA AAATGGAATA ATGAAAATGG GTCTAAAAAT GTTGTAATA   | 300  |
| CAGTGCCACA ACTGGTAGGC TCATCAATTA CTTATTTTAA AAGATACGCA TTAGTAGCAT  | 360  |
| ATCTTAACAT AGAAAGTGAA GTGGATACTG ATGCAGCTCC TATTTACAAT AACCACGAAA  | 420  |
| ATGAAAATTC TATGCCTAGC AAACAAGCTG GTGTTAACCA AAATCAAGTA AAAAATTTTG  | 480  |
| ATAAAAAGTT AAAAACCGGA AAGTATTATT GCTATGAACT TTTTAGAATT GCTTTATTTA  | 540  |
| ACATAAAAAA CTGGGTAAAT GATGAAAAAG AAAAAATAA TATAAATGCT CTTATTCGGG   | 600  |
| CATTATGTTT TGAAAATGAG GCGGATTTAG ATGAAATTTT TAATGATAAT CCTGGGTTTA  | 660  |
| AAAGCATACA ATATTGGGCA AATATTCTTT TAGAATATTT CAAGAAAACCT AATAAATTAG | 720  |
| ATGAACTAAA TAAGTTTGAA GACTTTATAA CTAATAATCA CGACGTTTAT GAAACAAGTG  | 780  |
| TCTTGAAATT CTTTTGCATG TTAAAAAAG AAAGACAATT TGATTATATA TTTGCAGTGT   | 840  |
| AATAATACAA ATAAATCCCC CTAAAGGGG GAAAATATTA ATCAATTATT AAGATATTTT   | 900  |
| GGCTTTTCTA CTCGCTTTAT ATAATGCTAT CTATACGCCT CATAAGGTTA TAAATTATTT  | 960  |
| CTTTTTAAGC TATTTTTAAA ACTTAATCTT TAGGCAAGTC TGCCAAAATT TGTTTTAATA  | 1020 |
| TTTGTTTAAC TGCCGTATT TTATCTTCT TATAAGATTC TTCAAAATTC TCTCTAGCTT    | 1080 |
| TTTCTCCATA TTTTTCGGCA TAATCAATTT TATCCGAATC TAATTGTATT AAATAATCGA  | 1140 |
| AAATTGAATT TGGATAGCCC TTTATGAGAC TATTTATGTT CATTATAATA AAAGATAAGA  | 1200 |
| AATCAGTTGT TATTTTGCTT TTTATAAAGC CCACAACATC AAGTGCGTCT AATAAACGC   | 1260 |
| TATTTTCTTT AATTCGATT TTTCTTAAAC TTCCCCTAAT TTCTGGAGCT TTAGCAAAAA   | 1320 |
| AAAAGCTTTT ATCATATTCA CTTTCAAAT CATAATTATC TAGTCTTTTG TTAAGTAAAT   | 1380 |
| CATAATCTTC TTTAGAAAAA GCTTTTTTAG CTTTCTCATA ATTTTTTTTT ATATCTTGAC  | 1440 |
| TCATAAAAGC ACTTAAATCA ATGCTTAACA TAAATAATAA AAATAACAAT AGGCTTATTT  | 1500 |
| TTCTCATATC CTCTCCTAGG CTTTATTATA TACATTCTTA TTAGCAATAC TAATAAGAAT  | 1560 |
| TAGAACAAGA CTAACAAATA GTCTTATTTG GTGTTGCAA ATTAAGCATT GTTGATTAAG   | 1620 |

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|------------|-------------|------------|-------------|------------|------------|------|
| ATTTTGGTAA | TTTTTATTTG  | CTAAACTTAA | TAATTAACCA  | AATAATAAGA | CCATTAACAA | 1680 |
| TAATAGAGAT | AAAGGGGGTT  | ATTATTGTGA | AAAGAAAAAC  | ACTCTTTCTA | TGGTACGCAT | 1740 |
| TAAATTTTTG | TAAACAAAAC  | GCTTTAGTTT | TATAAAGATT  | TTTTTGAATA | TCTTTAATAT | 1800 |
| CTTTTTCTAA | ATTAAATATT  | TTAGTCTCTA | AACCAGCAAT  | TTTCCTATTT | AAGTTAGAAA | 1860 |
| AATTCCTTTG | TGAAAGATTT  | TCATCATTAT | TTATTTTAAA  | CTTGTTATTA | TCTACCATAA | 1920 |
| GAAAAATCCT | TAAATTTTGT  | CTAAGTTACT | AGCATTAATT  | TTCTAAAGTA | TGAATTATTG | 1980 |
| TTTCTTGATG | TTTATAACAT  | TGTTTACAAG | AAATTAAAAA  | CATAATAAGA | ATACAAAAAA | 2040 |
| TAAAAATTTT | ATTTTGCATA  | GGGCCTCTCC | AAAAGTTAAA  | AATAAAGCAA | AATTATTTAA | 2100 |
| TTGTAAAACA | ACTAATTTCA  | AGATATATTA | TTGAAAGTAA  | AACATAAAAA | AAATTCAAGA | 2160 |
| AATAGTTTAT | ATATTTTTGC  | AATAATTCAG | AATGAATTTT  | TTAAGGATTT | AAATATCTAA | 2220 |
| TTTGTTACAT | TTTGCTATTA  | CATATTAACA | AACTATAAAT  | ATAATAAAAA | TGAAATTTTA | 2280 |
| GGAAGTTCTT | CATTATAGGA  | ATTAATCTTG | TTAAAATGGC  | TAATAAATGA | CATATAGTAC | 2340 |
| AAATTTAGTA | GTTTTTTTATA | TAAAATAGTC | GTAGTATATC  | ACATATTCAG | TCTAATTCCC | 2400 |
| TTGAAACTAC | CACTTTTGTT  | TATTTTAACT | TCTCTATAGC  | CCTAATTTTG | TATTTAATGT | 2460 |
| TAGCACTACT | AGCTATTCTA  | GCCCTAATAT | TTTTTGTTAA  | ATTTTGACTT | GTAATTTTTA | 2520 |
| CTATTTTTTT | AACTTAAAGT  | TTACAACCTA | GAACAAAATA  | GTTTTTGTA  | ACTCAATATA | 2580 |
| TTTATTTGTT | TTAAATAAAA  | AAAATTAACA | AAAAC'TATTA | AATAAAAACA | AAATCTTTTA | 2640 |
| ACTACTACTT | TAGAGTAGCC  | AACTTGATAA | AGTCTTTTTTA | TAATGAGCAT | TATCACTTTA | 2700 |
| CAAGTTTAT  | TTATAAAGGG  | GGATTTATTA | TGACTCAATA  | TTTAAATGAT | GATATACCAT | 2760 |
| GCAATTCCTG | CAATAGATTA  | ATTAGAAAAT | ATGACCAAAC  | TTGTGTCGCT | TGTGGGGCTA | 2820 |
| AAAATAAACA | AAATAAAAAA  | TCTTATTATG | GATTAATAGC  | ATTTTTATTT | TGTCTATTTT | 2880 |
| TTGGCTATTT | AGGATTTTCT  | AATTTGTATT | TAGGCAAAAA  | CCCTAAAATA | GGTTTACAT  | 2940 |
| TTTTATTTAT | ATCTATTGTT  | TTTTTGTTAC | TTGCAGTGCT  | GCTACATAAA | TCAAACAAGA | 3000 |
| CTAATTATTT | ATTAGTCTTG  | TTTGTACTGT | TAGTATACTT  | TTTTTTTGTA | AATAGATTTA | 3060 |
| AAATCTATAA | ATTTTTTTAA  | AAAGTAACAA | GAAAAATAAT  | TAGTCTCTAA | GAAATTAGTA | 3120 |
| ACAAAATCCA | TAAAAACATT  | TTCATAGTAG | TTACAATTTT  | TAATGTCTAT | AAAAATTAAA | 3180 |
| CCAAAAATAT | ATAAATATCA  | TATATATATC | CTCTTAATCT  | TCAAGTTTTG | GGGGTTTTGG | 3240 |
| CATAAAGTCT | ATGTTGCGTT  | TTTGTGGTCA | CTTCAAATTT  | GCATTTTTAC | TTACTAAATT | 3300 |
| GCTCTAGTGC | TCTAGCTCAA  | ATTTTGCATA | CAATTAAAGT  | TAGATAACTA | TATTAAGTGT | 3360 |
| GTAGTAATAG | ATATTTTATC  | TTTTAAGGCT | AAATATTTGT  | TGTTCTTTAT | TTAATCTTCT | 3420 |

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|------------|------------|------------|-------------|------------|------------|------|
| TCAAGATATT | TTATTATACT | GTCTATATGT | GCTACTACGT  | CTTCAGATAG | TTCTTTTATG | 3480 |
| TTAATAGCAT | GGAGTGCAAT | AGGACTGGTA | TTTACTCCGG  | CTGATAGAGC | TATTGAGCGT | 3540 |
| ATTTTGAGTT | TGTTCTTTTC | TAAATCATCA | TTATCGTTTG  | CATTAAATCT | TTGGATATCT | 3600 |
| ACTCTTACTG | CTTTTAAGGC | GTTTAGTTTG | GATGTTAGTT  | TTTCTTGAAA | AAGTTTTTGT | 3660 |
| AAATTTAAAA | ATTTTTCTTC | GAATTCTTTA | GCATTAGTTG  | CATATTTTAA | GTCTTCTTTT | 3720 |
| AATAAGCTTA | TTTTTCTCT  | ACAATGTTTA | AATGCAACTT  | CATCGGCCTC | ATCATTAAGG | 3780 |
| CCTGAGACAC | TCATAATAAG | CCAATTTATT | CTTTTTTTTT  | CTATTGTTGT | TGTTTCTGTA | 3840 |
| ATTGTTGCTC | TCCTTTTTAT | TATAAATAGT | TCACAAGATA  | TTACAAATAA | TGAAAATATT | 3900 |
| AATATAAAAA | TTAATTTAGC | TATGTTTATT | TTTTGCATTG  | ATTTTTCCTT | TATTTAATAA | 3960 |
| TGAAAATTAA | TACAATACAC | AAATAATCTC | AAAATTTTAG  | TGAATTTTTT | GATATCATAG | 4020 |
| AAACTATGAC | ATAGAATTAA | TATAAATTAA | TATTATTTTA  | TTTTGATATT | TAATTTTGT  | 4080 |
| TGATTTAAAA | GTGGAGTTAA | TTAATGGAAA | TTGATAATTT  | TTTAGATTTA | CAAAAAATCA | 4140 |
| CCGCAGAAGT | ATTGCTTAAA | ATTCACGAGG | ATAATCAAAA  | AATACTACAA | ATAATAGATA | 4200 |
| AAAATAAAAC | CTTAAAAAAT | AAAATAAAAA | AATTAACCGA  | AAATAAAAAA | GAAAATAAAC | 4260 |
| AAGAAAATTC | TAAAACCACT | GCTAAGTTGT | ACTTAAATCC  | AAAAACTAAT | CAATTAATTA | 4320 |
| TAAAATGTGT | CAAGACATTA | AAACAAATTG | ACCCAATAGC  | TGGATGGTTT | GTACACCTAC | 4380 |
| TGGTAATAAG | TGGGTGTAGG | GGGGCCGAAC | TGCAAAAAGT  | AAAAATGCAA | GATATTTCAA | 4440 |
| CTTTTTTAAG | CAAAACCGGA | AAAACTTTAT | ACAACATAAA  | AGTAAATGTG | GCAAAAAAAA | 4500 |
| AATTTACTAC | TTGTACTAGA | GAATTTGTTA | TAACCGAAAA  | AGAATTTAAT | GCTATTCAAA | 4560 |
| AAGTACACGA | AATTTACTTC | AAAAAGAAAA | ATCTTAATAC  | TAGCCGCACT | TATTTTTTTC | 4620 |
| AAAAAACCAA | ACATAGGTTT | AAAGATAATC | GAATTAGCAT  | TGACTGTATT | GCTAAAAAAT | 4680 |
| TCAAAAAGTT | ACTTAGAAAA | TGGGGTTTTG | AAGCACGTAA  | ATCACTTCAT | TTATGTAGAA | 4740 |
| ATTTGTTTAT | TTTCAATTTA | AAATCTAATG | GCTACAACCTC | TTTTCAAATT | AAAGAACTTA | 4800 |
| TGAAATATTC | TTCAACATAT | GAAATTGATA | ATATTTATGG  | ACTATCTCAT | GCAAGTAAAA | 4860 |
| TTCAAGCGTA | TGAGTGCATA | AAAAATAGTA | TTGCCTTATA  | GCTTAACCAG | TTAAGCTTAA | 4920 |
| ATGGTGAATA | TCTTTATTTT | TGACATATAC | TCCTTTATAA  | TCCTTTACAT | TTATTTATGT | 4980 |
| ATTTCTAATA | ATCTTTATCA | GTGTCCCAGT | CAATAGGGGC  | ACTGATACTA | TTTGTAACG  | 5040 |
| CTATATTGCT | AAGAAAGAAT | ACTTACTACT | TATTGGCAAA  | AACCCGTAA  | ATCTATCTGA | 5100 |
| TATTGCTCTT | TTATTCGGAT | CATAATTAAA | CACAAATTCT  | CTAAATTTAT | AATTCACATT | 5160 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| ATTAATTAGT  | GGATATTTAT  | GCATAATCTC  | ATTAATTTTT | ATTTTGAGCA  | GTTCTTTTAT  | 5220 |
| AGGATTTTCT  | TTTTTTTTGT  | TTTCAATTTG  | AATTTTATTT | AACTCTAATT  | TTAGATTTTC  | 5280 |
| AATCTCAAAA  | ATAGAACACT  | CAAGATTTAT  | AGCGGCCTCA | TCAGTTCTAA  | TTTCAAGGTC  | 5340 |
| TACACAATCA  | ACATATTCTA  | CAAATTCATT  | TATCCAGTCA | AACTCAATCC  | CATTTTTATA  | 5400 |
| AAAATCACTA  | TTTATTACTA  | AATCTTGAAC  | AAGATTTATA | AAAGTATCAT  | TATTTCCATT  | 5460 |
| ATGAGATATT  | AATAAATTGA  | CCGCCTCATT  | TTTAAAAATT | TTATTTCTTA  | AATTGGAAAC  | 5520 |
| TTCAAATTCA  | CATTTATTAA  | CAAATTCAAA  | CACCTTTGTT | ATCAAAAGAT  | TATTTCTTTT  | 5580 |
| AATCTTACAA  | TTAATAGGTT  | TATTACCTAT  | TAAAAAGAAC | AAATTACAAT  | ACTCAAGCCC  | 5640 |
| AGTGCACGCT  | AGCTGCACTT  | GTGCTTGAC   | ATAATATTTG | AAAAAATATT  | TACTACTTAA  | 5700 |
| AAAAATGCCA  | TTTTTATTGT  | ACTCAGCAAT  | AGCACTACTC | ATATAATTAG  | AGTCGCTACT  | 5760 |
| TTTAATCTCT  | AATAGTTCTA  | AATCGCCATT  | ATTATTAATA | AACCAGCCAT  | CAATTGTTGA  | 5820 |
| GCCCACTAAA  | GTTTGTGAAC  | TACCCATTTT  | TTTGAAATAG | TTATACTTAT  | CAACACCGTT  | 5880 |
| AGCATATTTG  | TTTTTTATACA | AAATATCAAT  | ATTATCTCCG | TGTGCTTTAA  | TAAATTCTCT  | 5940 |
| AAATCCTAAA  | TTCTCTAACT  | CTTTGCCCTT  | GAGCATATAT | AAATTTCTCTT | CATAAGGCAT  | 6000 |
| ACTTATACCA  | AAATATTTAA  | GCAGTCTATT  | CATCATTAAT | TCTTTTAACC  | CTACACCACC  | 6060 |
| AGTTAGAATA  | TTGCCTACTT  | CAC TAGCACC | GTATTTATTA | AGTTTGTTTC  | TTGCACACT   | 6120 |
| AAAATCAATA  | TTTCGATTAA  | ATCTAAAACA  | TTCTTGACTG | CTTATTCCGG  | GTAATTTCTT  | 6180 |
| ACCTATCTTA  | CTTAATTTAC  | TTTTTTCTTT  | AGTTTGATTA | ACTTGATAAT  | CAAGTTCTAT  | 6240 |
| AAAATTTTCA  | AAACCAATAA  | AATTAGTTTG  | CTTATTTATT | TGATTAATTT  | TTTGTGGATT  | 6300 |
| ATTGTTTAAG  | TTTTTCATTT  | TTTTACTCCG  | CAAGTTATAA | TTTTCTTATA  | TATAAATATA  | 6360 |
| TAGCAAAAAC  | TATTTTTTGGC | AACTTTTTTA  | CAAAAAATTT | TTTATTAAAA  | CAC TTAGGGC | 6420 |
| TTTACTAAAT  | TCTCTTTTAA  | AAGAACTTAG  | AAAAGCCCTA | TGGATTTAAG  | AACTGATTAT  | 6480 |
| ACTTACGTAG  | TAAAAATACT  | ACAGATATTA  | ATAGTATAGG | CTATGTTAAA  | ACTATAATCA  | 6540 |
| ATTTATATTT  | ATATAATCTT  | G TAGCTTGAA | AAAAATATAA | AAACATTTTTT | TTGTATTTTTT | 6600 |
| TTTATAAAAC  | ATTAACTTTT  | AAATCAAAAA  | TATGTTATAT | ATTTATATAT  | AAGAAAATTA  | 6660 |
| TGACTTGCGG  | AGTAAAAAAT  | GGAAAATTCT  | AAAAAAAATA | CCCTTTGCCA  | AAATAAGACA  | 6720 |
| CAACATAAAT  | CAATAGTTCT  | TATCTCAACA  | CTAGAGTATA | TAAACAAAAC  | ACATAATAAA  | 6780 |
| TACACACAAA  | AAAACATACT  | CTATTACTTT  | AATGAAAATC | TTAAAAGAAA  | TGGTCAACTA  | 6840 |
| CCCGTTAAAA  | TAAAAACACT  | GCAAAATTAT  | CTTTACAAAT | TAGAAAAAGA  | AATTAAAGTA  | 6900 |
| ACA ACTAATT | ATCACAACAA  | CTTAGGAGTA  | AATTGCGGCA | CCGAAATATA  | CTATCAACTT  | 6960 |

|           |             |            |            |             |            |            |      |
|-----------|-------------|------------|------------|-------------|------------|------------|------|
| AATTTTTC  | CAAAAAA     | AGGAATG    | TTACCAAAAA | ATCTATAAAT  | ACTTTCAAGA | AAAAAAGAT  | 7020 |
| TTAAGATT  | TCAAAAA     | AGAGC      | TACAAGGGGC | CTTAAAGATA  | GATTTACTAA | AAATGGGAGT | 7080 |
| GTAGATT   | TAAAGG      | AGTGT      | TTAAATAAA  | AATAATATAA  | AAGAAGAAAG | AAAGATTAA  | 7140 |
| GAAATAGAA | AGTATCAAGT  | AAGAAATTAC | TTCAATAAAT | GTAACTTTTT  | ATGTAAAAAA |            | 7200 |
| ATTCTTTCA | TTTTTCTTAC  | AATTTTATTC | AATTTAGATA | TTGATAAAGA  | TAATATAATC |            | 7260 |
| AAAAACTT  | AAATCATAAA  | AATAATAGAA | ATTAAATTGC | TAAAAAATAA  | AAATATACAT |            | 7320 |
| TTTACTAA  | ATCTGCATGAA | AGAAAAACAA | GAAAAATTAA | AGAAAAATTCT | ATGCAACACT |            | 7380 |
| CAAAAAAG  | AATGAAAAAA  | TGAATATAAT | CCTAAACAAT | TAGAAATAAG  | TTTCCAAAAA |            | 7440 |
| ATATACGAA | ATTACAAATT  | TAAGCCTCAT | TTTATTATTG | AAAGTCATAA  | ATATAGCGAT |            | 7500 |
| TTAAACAAT | TAAAGCGTAA  | ATTAGAGAAG | TCAATTGAAA | GAAAAAAGA   | AAATTTCTCA |            | 7560 |
| CAAAATTAT | CATTTTAA    | AACAAACATT | TTCAATATCC | TTATTGAACA  | ACTAAAAAAA |            | 7620 |
| GAAGTAAAT | TTGAACTTCT  | AAAGCCAATT | ATAAAAGAAT | ATTTGAATAA  | CCAAAAGAAA |            | 7680 |
| ATAGAATAC | AATAAGTGTT  | TTGCACATAT | TATTGCGAAT | TATTAGAACT  | AATAAAAAAC |            | 7740 |
| CAAAAAAG  | TTATTGAATTT | AAAAGAATTA | GATAGAAAGG | CTATATAAGG  | ATTTAATATG |            | 7800 |
| GAAAATTC  | CAATAAGTTGG | GCAAACATAT | AAAGAAATAA | TTGATATAAA  | AAGAAAAAAA |            | 7860 |
| CGATTTATT | AAATTGAAAA  | AAAAAATAAT | AAAACGTGT  | ATCACACTAA  | GATAATGATG |            | 7920 |
| GATATTCAT | AATTAGGAAT  | TGTTAATGTT | AAAAAAATC  | AATTTCTGT   | GTCATTTAGA |            | 7980 |
| GAATTATAT | ATCAAATGGA  | AATTCAAGAA | ATTCGCCTAT | ATCCTATAAG  | GAAAAAAGAT |            | 8040 |
| AAATTTTT  | AGATTTTTTA  | TGGCTATAGA | AAACCAGTAA | AAAATGTTTT  | TGTAAGATAT |            | 8100 |
| ACAAATGG  | ATGTTAAAAA  | AGTATATTCA | TTTTCAAAAA | CGTATTACAT  | AGAGTTTAGA |            | 8160 |
| TTTAAAGCT | GTAGTGTTTT  | TTGTTATTTA | AAGGGTATGA | GGCGTTTAAC  | AAAGAAAGAA |            | 8220 |
| AAGATAGAT | CAACCTATAA  | TAAAGCACCT | TTTGATAAAT | TGATAGATTT  | AGAAAAACAT |            | 8280 |
| GTATATGA  | ATTACAATAA  | AAAATACCCA | GAACAAGGAT | TAATTCTTAA  | GTGGATATTA |            | 8340 |
| AAAAATCT  | AAATAGTAACA | ATAATATTAA | TTAAGGAAAA | TGTTGACAAA  | AATAAAGGAA |            | 8400 |
| AATTTTTAT | GAAAAAAAAC  | GTGTTGTTAA | AGTTTTAACA | AAAAAGATAG  | ATACTTATGT |            | 8460 |
| TGAACAAA  | TTAATGATTA  | ATGAAAGTAA | AATTTCTTAT | TACAAGACAC  | TAAAGGAAAA |            | 8520 |
| GTTGAATG  | AATTTCAAAA  | AAGAAATATT | CCACAGGGTG | GAAAATATTA  | AAATTTTAAA |            | 8580 |
| AGAAATAAA | GATAATCAAT  | ATTATAAATT | TGATGGTTAT | AAAACTTTTT  | TTGATTTTAT |            | 8640 |
| AAAAGACT  | TTTGATAGCA  | AAACTCAAGC | GTATAAGTAT | TTAAGATTAG  | CAACTGCACT |            | 8700 |

GCAAGAAGGG CTTATAAAAG AAGATTATTT AATAGAAAAT GGTATTAAAA ATTCTTATAA 8760  
TTTTATAAAA GATAAAGAAA GTCCGGCGTT AAAAAATCT AGGCAAAATC CAATAAAACC 8820  
ATTAAGATTT CAACTTAAAA CTCAAGAAAG TTATGATTTT TACAAAAAAA ATGCTAAATT 8880  
TACAGCGTTT ATTTTGGAAG AACTTCTTAA AAATCAAAAA GATTTTCTTA AAAAAGTTTT 8940  
AAGGAAATAT GAAGAACTAA AAATCTAATT TTAGAATTTT GTAAATAATT TAGAGAATAG 9000  
GTTTTTATAA GTTCTTTTAA AATAAGATTT TATAAAAGCT TTATATTTTT GTATTTTTAT 9060  
AGACCGCAGT GTAATAATAT TAATTGATTT TAATTTAAGG TTGAAGTAAA CTAAATATAG 9120  
TTTTGTAGGA AATAATTTTT CATTATTTCC TACTTGAATA TTGGATCGTA AAAATATTAG 9180  
GGCTTTACTA AGTCTTTTAA AAAGAGAATT TAGCAAAGCC CTAAGTCTTT TAACAAAAAT 9240  
TTTTATTAAA AAAAGTTGAC AAAAATAGTT TTTGCTATAT ATTTATATAT AAGAAAATTA 9300  
TAACTTACGG AGTAAAAAAA TGAAAAACCG CAAAAACAAT AATCCACAAG AAATTAATCA 9360  
AGCAGAAATT GACTTTTTAA GAGATATGAA AACCTAAGG ATGAAGTTGC CGGGGATTGA 9420  
TAAAAATCTT AAAGGTTATG GCTATAAGTA TCAGAATTTT AACGAAATAG CTAGAGAAAT 9480  
TAAAAAAGTT ATTGATAAGC ACAATTTATG CCTTGATTTT AAGCAATTTT CGACTTTTAC 9540  
AG 9542

## (2) INFORMATION FOR SEQ ID NO: 14:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

TTATTACATT CTTTAAATAA AGATTTACGA TTCTTAATGC TTGGATCTAA GCCTTTTTTA 60  
AAATCAATAT ATCCTTCACC AAGAGCACTA AATTTGCTAA ACATTTTATT AATAAGAGTA 120  
AATTC TTCAT TGTCTTTGAA TTCTATTATT GATTCTTGAA TAGGAGATAG CTTCTTAATT 180  
TGATTTATAT TTAATTCAAT TCCTTTATAA GCATCGTCTT TACTATCTTT CAAATCCCTA 240  
GTTATTTCTT TTAAAATATT ATCACTACTC TGAATCATGA ATTTTGCTTT AAAGCTCGAT 300  
GTAGATTCTT TAATATTACT AAGTTGAAAT ATTGCAAATT TAAAGCTTGA ATGCACATCT 360  
TTAAATCTTT TTTTGTTTTT AAATTGATAA ATATAGTTAA GTTTATAGCG AGCAAATATA 420  
TGTTTTCTTA GTATTCTAGA ACTAGATTCA TTCCAAATAG CTGAAGGAAC TAAATAAGTT 480  
AAATTACCTT TTTCTTTTAT TAATTTTAAA TTAAATGTAA CAAAGTATCT AAAAAGATTT 540

GGGTCTCCAC CACTAGTAAA GCATTTAAAA TCAAATTTAT AAATATTATT AATGGCAATT 600  
ATACTATTTT TTTCTTCATT GTATTCAATA CTCAAAGGAT GATTATCTTT ACTAAGTATT 660  
TCTTGTTTTA TGATATTTTG TTCTTTTATG CCTAGTTTTT TGTAGTTAGG AATATGTTTT 720  
GAAAAAACT CTGTTTCATT AAATTTAGTT TTCTCCCATG GAGGATTTC AATTACAATA 780  
TCAAATCCTT CTTGAATATC TGGAAATTCA ATTCCATAGT GAAAAAATTT ATAGTAGCTA 840  
CTTAATTTTC TAATTTTTTC TATTTTTTCT TTATCTTCAC TAGAAGTTTT ATTGCCCAAA 900  
ATATTTTCAA TTAAACTAAT TACAGACGCA ATATCACTAA ATTCCATATT TAAAGATTTA 960  
TCAAAAGATA ATGAATAAAG TTTAATTAAA GAAAATATTA TTCTTAAATT ATCTATATCT 1020  
TTACTTTCTT CATATTCTTT GTATATCTTT TTAGATTTTT CTATATCTTC TTTAGTAGTA 1080  
TCATTAATAC CTTTAATTTT TTGATAAATA TCTTCTAAAA TAGTTATAAT TTCTTTAATT 1140  
CTTTTTTTAA ACAAAGAAAA TCCACTTTCA AATTTCTTTT TTACAATATC AAAGAATTCA 1200  
TCTTTGGTAT ATCCTAGCAG GGCATTTCCCT GCTTTTATAT GATGTTCAAT AAAGCTTAGT 1260  
GGTGTTCCAA AAATAAAAGT ATTAATCCAC AAAGTTAGCA TAGTAATTTT AACTGAAATG 1320  
GGATTAATAT CAACACCATA AATACACTTC TTTAGTAACA TCCTTTTAAG TACTAATTCT 1380  
TTACTTATAC TATCTTGAAC ATCATACTCT TCACTTTCTT CAATAATAAC CCTATATTCT 1440  
TCATCAAGTT CTTTTTTTAC ATCTTCAAAT TTATCTAGCT CGTACCATAC CTTTTCTGTT 1500  
AAGTAATCTA GACAAGAAAT TAAAAAATGC CCTGATCCAC AAGAATTATC AATTATCTTT 1560  
ATATCTAAAG GGGATTTGGT TTTAAGCTGC TCTTCAATTG ATGATATGAC CATAAAATCA 1620  
GTCAAGTCAT CTGGAGTATA ATATGCCCCA CTTTTCTTTC TATCAAGTGA TCTAGATGTA 1680  
AGATAAATAT TACCTTTAAG ATATGTAGCA ATTTTGTTTA CTTTCTTATT TTCAAGCTCT 1740  
TCTTCAGTAC GAATAAGGTA AACTCCGTCT TCAATAATAC GATGAACAGT GGTATCTGCA 1800  
ATTCTTAGGT CATATTCAAG TAGAGTTTCG TATAATTCTC CAAAACTTTT AGGATCTAAC 1860  
CTTGAATACT TTACAAATTT TTCATCTTTA ATATTTTTTT CTTCAAAGAA AAGCATTTTA 1920  
ACTAGTATTT CTTCAATCTC GCTAATACTG AGCAAACCTT CATTATTTAA ATATTTAACC 1980  
TTATCTTCTG AAAATAACCC TCCATTAAAT ACAGGAACT TTATTGCATC ACTTCCTTTA 2040  
TCAAGTAAAT TGAAAATTGT TATTATTTTT TTATATTCTA ATTTCTTTTT TGTATTTTCA 2100  
TCATAAAAAA AATATCTAAA AGATATAGAA GATCTGTATA GCTTATTTTC TTGTAATATT 2160  
TTCTTAAAAA TGTCGTTATC TTCAATATAT GCAATAAAAA ATATTCTTAA AATAAAAAATA 2220  
ATTGATTCTT CAAGAATGCT AGCTAAAATA TGCTGAGTAA TTTCTTTGCC TGATAATTTA 2280

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|---|------|
| AATTCTTTGT CATATATATT TTTTGCAATT TTAAATACTA TAGAGTCGTC GGGTCTCTCA   | 2340 |
| TAAAGTATCT CTTTGTAGAGT TTTTGAATT ATCTCTTTTT CTTTAGCTAT TTGTTCTTTT   | 2400 |
| TCAACCTCTA TTACATTACT TGTCTTTAGA TATCTTTCTT TTCTTATAAG GTAGATGAAT   | 2460 |
| AAAACAAACC ATTCTTGTTT CTTATATTCT TCTTTTTCTT CAATTTTAGA AAAATTGAAT   | 2520 |
| TCAATATATC TTTTTTCTCC ATAAAGTACT TTCGATTTGT CATATAATCT CCATACCTTT   | 2580 |
| CCATTTGAAA GTATCCCATATA ATGTTTTTGA TATTGATTTA GATATCTATA TAGCTGATCT | 2640 |
| TCTGATTCTT TTAATTTATC TTTAGCATCA AACTAAATG TTGGGCGCTT AACCTCTGCT    | 2700 |
| ATAATCAAGA TATCTTCGAT AGGAATAGGT TCATTATTTT TTTTAGCTTC TTTTAATTTA   | 2760 |
| TTATTAAAGG ATGCTTTGTC TTTGTCGTTT TCAAAAAGCA GTATATCTAC TCTAGACTCC   | 2820 |
| ACTCCTTCTA TTTGACCGGC TTTTTGTTGT TCTACTGAAT AATTAGTTC TTCAAATATA    | 2880 |
| TACTTTAGCA AAGACTCTAT ATTTGCTTCT GTGGAATTAT CATCTATTGA AAAAAGTTTA   | 2940 |
| TTTTTTTATAA GAATAAAAAA GTCTTTTAGC TTATTAATAT TTTCCTTTTT TATAAAGTCT  | 3000 |
| TTTGATAATT GTTTATAAAG AGATATATTA GGATTATTTG TTTTACGAT ATCATTAGTT    | 3060 |
| TTCAATTATCT ATGCTTTTAA AAACCTTTTA TATTATTTAC AAATCTTTTC CATATATTAT  | 3120 |
| TAATATTAAC AATATATTTT AAAAAAATTA AGTTTTTAAT TAAAAACTTA ATTTTLAGAT   | 3180 |
| AAATAGGTTG ATAGAATAAC TTTCAATGAA TTCAACCACA AAAAAATCA TATTCATTTA    | 3240 |
| TCACTAGAGT TTGCTCCCAA TATACACCTT CTAAATTTAT TAATAATCTA AAAAAAGTAT   | 3300 |
| CTTTAAGATT TATAAGAAAA AAATATTTTA CTTATTTAGA CAAGTATTAC CGGAAGCCTT   | 3360 |
| ATTTGGTCTA GAAATTATTG TCTTCTCTTT ACTAGAGATG ATTCTATTGA TATCATCAAA   | 3420 |
| AAGTATATTC AAAAACAAAA CAAATCTATT TATTGGCAAA TTCATATCCA CCAAATTTTC   | 3480 |
| ATAGAAATTA TAGATGGAAA ATTCTTTGTT ATTTTTTGGC AAATTATTTA ATAATATTAA   | 3540 |
| AATTATTTGA TTTTATTAT TAAATTGTAA TATTATTATT TTGAATTAAA ATTATATTTA    | 3600 |
| TTAGTCTAAA TTTGTAAGGA GAATATTTTG AAAAACCCCA AATCAAATAA ATCTAAGCTT   | 3660 |
| AACATTATTA CAGCAATATT AGCTTCAATT TACATATCAT GTGCACCTAT TGGAAAGGTC   | 3720 |
| AATACAAAGC CAAATAGTGA TACCAATCCA GAAAATAACC AAAATTAGAA TTTAGAGAAG   | 3780 |
| CTTTTCGTAT AAATTTTTTA TAATTTTCAG GATTATACTC ACTGGCAACT ATGTTCAATA   | 3840 |
| TTCTTCAAAAT GGCTATAATA AAGGAATATT GAAATTATAG GCTATGTAAG CTGCCGATGC  | 3900 |
| ACTTTCCATA TCTATTATAA TTGTATTTTC AAATCTTCA AAAATATTTT AGATATATTG    | 3960 |
| ATTTTCATAA TTAATAGATC AGTCTTCCAA CAATTATTAA CCTAAATGT GATATTGTCC    | 4020 |
| TGCCTATCTT GATTTAGAAG CCTTTATTGC AAATGTTTAT TTGATATAAA TTTTTTAGAA   | 4080 |



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|---|------|
| TGTTCTGGAG CCTGTCCTAT TTAATACTTA GAGGAATTTA AAAACATAT ACAAAGCTAA  | 4140 |
| AAATTATCTA AAAAGCAATT TTTCATACTA CATGTTCCAG ATGGTATAAA AATAAAAAAT | 4200 |
| GATTTAAGGA ACTATAAAGT TTATCTTTTA AAGTTCCTTA AATCCACAAA AGCTTTGCTA | 4260 |
| TAAGCTCTGA TATAAATTAT AGAATATGGG GAAGGAAGTA CCAATAGTTA AAATTATAGC | 4320 |
| TTTTAAGTCA ACTAAAGGGG TTGAAGAAAA ATATAAAGTT AAAAGCCCCA AGTTAATTTT | 4380 |
| TGAAGTATTG AATATTGATT TTTATCAATA TAAAATTAGT ATTGCTCTAA TTAGGTAAAG | 4440 |
| GGGCTTCAAG AAAGCCCGGG CGCATTAATT CATATAATTT TTAGGGGTTT AAATGACTAT | 4500 |
| TTAAAAAGC ATTTGTTAAA TTTCTCTACA AGGAAAGCAA ATATAATTAT AACTTGCGC   | 4560 |
| ATCTTACTAT ACAAGATAAA CAAAATAATA GGGATAAAAC CTATAAAATT GCATTGGGTC | 4620 |
| TAAAATTATT TCATTATGGT TGTTAGCCCG GATGTTTAAA GTTTTTTGAG ATTTTTAAAT | 4680 |
| ATCATTAAAA GCTTGGAATT TTTTGTAATG AGCTGTAATG ATATTTTTTAC TAAAAAGGG | 4740 |
| ACACTTTCTA ATCTAAAATT GAGTGCGGTT GAACGTTGTA TTTTAGATGA CATGGAAATA | 4800 |
| GTGATAATGA ATTAAAAAAT AATTTATTTG AAAGTTATGA TGAAAAAAT TGGACGAGTT  | 4860 |
| TTTTATGAGC TTGGGATCTA ACCTTTTTTA TACAATTTTT TAGCTTGAT TGTAAATATT  | 4920 |
| ACAACTTTTT AAACCTCTCT TACATAATTT CAATTTATTA ATTGAAATTA TGTTCATACA | 4980 |
| TATTATATAA ATCTTAAAAG TTTCTAAATC TAATACTGAA TATTACGATT TATTTTTAGT | 5040 |
| TATCATATAA TTTTAAAAAA AAAATATTAT ATTCAACCTT ATTAACCTCT TTATTTAAAA | 5100 |
| TATCCGTATG GCCCAATAAC TATAAATAG ACATTAAACG TATGTGCAAC ATGCCCTATT  | 5160 |
| ACGACACCTT CCATCTCAAT AACTATTACA TCTTTAAAGT TTTTATAAT TTTGTTTATA  | 5220 |
| TATTTTAGAT CAATAAACTG ATCTCCTGAA ACTATTAATC CCAAATATGC ATTAAATCT  | 5280 |
| ATAATTTTTG ATTTAACAAC CTCTATAGCT TTACTAGCCC AATATTAAAA ACATATACAA | 5340 |
| AAATTCAAAT TTTTACCACT TTTTTTAAAT TTCTTGCAAA AATATTGAAA AAGGGATTTG | 5400 |
| ATCGTATTAA CTGCATTAAT AAAAACCCTA AATACATTAA ATTTAAAATT TTATTTGCCC | 5460 |
| GCGCTATAAA ACAAATTTG ATAAGCATAA AAATACCTTT GCTTCTTTTT CTAAATACTC  | 5520 |
| TTTCACTCTT TTTAAGCCTT TATCATTTGC ATAATTGTTG CAAGAACTTA TCAACACAAA | 5580 |
| AATAATAAAA CAATAAACAT TTTTTTGCAT ATTGCTCTAT AGAGTAAAC AAAATACAAT  | 5640 |
| ACTATATAAA TTATATTTAC AATATTTTCT ACAAATTCTA AAAAGTTAAC AGGTCAATTG | 5700 |
| ATATTGATCC ACAGAATTTT TTGTCTTTTG CTTAATCTT TTTGTGATAT AATGAAAAAA  | 5760 |
| TATTTTATAA ATTCTTGACT TTGATCAAGG TAATAGGAGA AATTTTATGC AAAAAGACAT | 5820 |

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| ATATATTTTCG AATATATTTT TATATATACC ATTATTTTAT TCGTGTTTTT TGACGCCACC | 5880 |
| AAAATCTTTA AAAATCAACA GTATCAAAAC TGAAGTTTTT GATTTTAAGA TAATTGAAGA  | 5940 |
| GGGGGATATT ACAAATATA ATAAAAACCC CATTAAAGAG AGTAACAATA ATATTTGTCT   | 6000 |
| TACTTTTAAG GAACCCGAAT TAAATGAAAT AAAAGAAGGA GAGGTGTTTG AAATACTTGC  | 6060 |
| AArTGGTTAT GTTACATGGG CAAAATCTGG TGATTTAArA GATATAAAAG ATAAAAATAA  | 6120 |
| yAATTTAATT GAArATCTTA GAGAGCTTAA GTATTCTTAT ATTTTTTCAC CCATCCGATT  | 6180 |
| CAAACTTAT TCATTGCTTA CCTTTAGCTA TACTTAATTA TAGCATTAAT GACAATAACT   | 6240 |
| ATAAATATT CGGTCAAGAA GTACCTATAG CTAAGATAAT AGCATTTGAA TCAACTGAAG   | 6300 |
| AGTTTGAAAA CAAATATGAA ATCAAAAGTT TAAACTAAA TTCCTGAAGAG TCGAATATTG  | 6360 |
| ATTTTGAACA AAATAGAACT GGTTTTGCCA AAATCAATTT AAAAGAACT TCAAGGGAAC   | 6420 |
| CTCAATACAT TTATTCATAT AATTTTGGGG TTTTGGACAA TTCCTTAGTA GATTATTTTA  | 6480 |
| AGCTCTTTTA CAAGAAAAGT AAATGCAACT ATATGCCTGC ATATCTTACT ATAAAAGATA  | 6540 |
| AACAAACAAA TAAAGATAAA ACCTACGAAA TCATATTAAT TCTAAAGCTA TTTAATAATA  | 6600 |
| CTATTAGATT AATATTTAAT AAGTATTCAT ATTTATCAAA AGAAAAATTA AAACTTTTTA  | 6660 |
| CTGATGAATG ATAAAAATTG AATAAGAAAA GCAAAGACAA AAATTTATCA ATTAATGTAA  | 6720 |
| ATAAATACAA TTCAAAATTG ATAAAGTTGT GTGACATATT CGGCATCTCA ACTTGTCGAT  | 6780 |
| TTAAAAGTAT TGATAATAAA AACCATTTT AGCCCTTTTT CAAAGATGTT ATTTAATTAA   | 6840 |
| TCGGTTTTAC TTATTAAGGC TAATATTAAT TATTTAGAAT ATTTAAATTT TCAAGACCGC  | 6900 |
| AAGTATCAAA TATTTATTTT TCAATGGACC GGATTATATT ATTATTAATA TAATTAACT   | 6960 |
| TGTTAAAAAT CAATCAAGGA TATATAAAC AGATTTTTTA AAATATTATA AAACTTTTGA   | 7020 |
| TAATAAAAGT ATCCTTGTAT TATATATAAT AATATTTTTA ATTAAATAGA TAAAATATAT  | 7080 |
| TATTGATATT GAATTTGATT AAATAATTAA GCATACTAAA TACAGAGCCA TTCAAGGAGA  | 7140 |
| GTATTTATGA AATACTATAT ATGTGTGTGT GTTTTTTTGC TTTTGAATGC TTGCAATTCA  | 7200 |
| GATTTTAGCA CTAATCAAGA AGATATTAAA TATCCATCTG ATAAAGAGAA ATCAAAATCC  | 7260 |
| AACATGGAAG CAAGCTCTAA AGAAGAAGAT CCAAATAAAA AAATAAAAAA TACACTGCTT  | 7320 |
| AATGATTTAA TAAATTTGAT AGAAATAGCT AATGAGCATA AAGAAAAATA TGAAAAAGA   | 7380 |
| ATGCAAGAAG AACCTTCAGA TCAATACGGA ATATTGGCTT TCCAGGAATT AGACTTGTCC  | 7440 |
| GTTGGAAAAA TATCTGAAGA CACCCGCAA TCTAAAAAAT TTAGAAAAAA CACCTATTCT   | 7500 |
| CCCTTAAGCG CTATTGATGT CAATAAATTA AAAGATCTTT CAGAGATTAT AAGAAATTCG  | 7560 |
| GGCCAAATAC AAGGTTTATT TAATATTTTC AACAGATTCG GAGGCATTTT TGACGACTCA  | 7620 |

|             |             |             |            |             |             |      |
|-------------|-------------|-------------|------------|-------------|-------------|------|
| CTTAATCACG  | TATATTCTAA  | AAAAGATATC  | CTAGGGGGAC | TAGAAATTTT  | GGATTTAGAT  | 7680 |
| AAACTAAAAA  | ATTCGTTTGA  | AAAATTACTA  | TCTATAAAAG | AAACTTTCTC  | AAAAATGCTA  | 7740 |
| AATCAACTTT  | TATTAGATTA  | TAAAAATGAT  | AAAGATCATA | TACGAACAGA  | GACAAATAAA  | 7800 |
| CTTAAATCTC  | ATACAACTGC  | ACTTTTCGAA  | CAACTTGATA | AAAAAGAAGA  | CGAAGCATAT  | 7860 |
| GAACCTAAAA  | ATCAGATATT  | TTCAATAAGT  | AACCTTTTAA | AAAAGATTCA  | ACTCCATATA  | 7920 |
| TAAAATTTAA  | AAATTGTGCT  | AACATTCATT  | TATAAAAACT | TAATTATTAG  | GAGGTAATAT  | 7980 |
| TAATATGAAA  | AAATTTTCAC  | ATTAATATTA  | ATTTTTAGTT | TAACAATGCA  | AATCTTTGCA  | 8040 |
| CAAGAGAAAC  | TTGAAAAAGG  | TGTTGGAGAT  | ATTGCAACCG | TAATGAAATA  | TGAAAGTAAA  | 8100 |
| AAAGCAACCA  | TATTAGCACC  | ATTACTTTTG  | AACATCTTTT | TATCTTTAGG  | AATAGGATCC  | 8160 |
| TTTGTTCAAG  | GAGATTATAT  | TGGTGGTGGT  | GCACTACTTG | GCTCTCAAGT  | GCTTGGAGGA  | 8220 |
| ATACTTATAA  | TGGCTGGATA  | CATGACCGGG  | GATATTGGAT | TCGTTACAGA  | AAGCACAGCA  | 8280 |
| ACAGTAATAA  | CCGGAGGAGT  | ATTATCAGGA  | ATAGGAGGGC | TCACAATTGC  | AGCATCCTAC  | 8340 |
| ATCACTGGAA  | TTATCATTCC  | ATTTAAATTT  | GCTAATAGAT | ACAACGCAGA  | CCTTAAAAAA  | 8400 |
| AGACTCGGCA  | TTGCACTTGC  | GGGGCTTGAA  | CCCAATTTTG | ACATTGGAAT  | AAACGGGGAT  | 8460 |
| TCCAACATATC | GTTTAAAAAA  | TCCTATTGAA  | TATCAATTTA | CCTGGGGTTA  | AGAGAGATTA  | 8520 |
| TTAATGCAAA  | TAATCTCTCT  | TCAAAGCCTA  | CTAAAAAAT  | TCATTGATAC  | TATTTTCGAAA | 8580 |
| TCAAGAATTA  | CATAAATAAC  | TTTTTGTCTC  | AATTCACAAA | AGTTTTTTTAA | ATTTACACAAG | 8640 |
| ATTTACCTAA  | ACTAAAGTAG  | TAATAAAAAAT | GAAAAAAGTC | CCCCCAAAA   | GGGACGCTTT  | 8700 |
| GATTGCGACG  | ATAATTGTGG  | AAGGACAAAC  | GACATCATCC | AGCCTAAAAT  | AACAATAGCA  | 8760 |
| CCATATATGA  | TAAAAATCAA  | GTATTTGTTT  | TTATTCTTTT | TTTTTCTTTT  | ATATTTTTC   | 8820 |
| TATTCATTAA  | TTAGATCTGA  | TAAGACTTCT  | TTTTTAGTAA | AAAAAAGTCT  | TTCAAGAATA  | 8880 |
| TAACACGCTC  | TTTTAGTATC  | TTCTTTACAA  | AACGTATAAA | ACTCTTTATT  | CTTCATAAAA  | 8940 |
| AACCTGATAG  | ACATTTTTTT  | ATTATTTACT  | TCGGACAAAT | TTTCTTTTTT  | TACGTTTAAT  | 9000 |
| AAATTCTCTT  | TCAATTGTCT  | TTGCAAGCCT  | CTAAATCCTG | TTTCTTTAAT  | ATTATCTATA  | 9060 |
| GAGATAGCTC  | CTTCTAAAAC  | CTTTTCATAA  | ACTTTTAAAT | ACAAATACGC  | TTGTGTTTTT  | 9120 |
| GCAATTACAA  | AATGTTTTAT  | AAATTGCTCA  | AAACTAGAAA | AATTATCATA  | TTTGTAAGT   | 9180 |
| TCTTTTTTTT  | TAATTTTCGTA | TAAAAATTTT  | ATTCTTTCAA | TTTTATTATC  | AATATCATCT  | 9240 |
| TTTAAATTAT  | ATTTTAATTT  | CTCCTTTAAA  | TTATTGTAAT | TAATCAAATC  | CTTATCTTGC  | 9300 |
| ATGTTATCTA  | TATTTGTCAA  | CTCTTTATTC  | ATATGACTGA | AAGTCCTACT  | ATTTAAGACT  | 9360 |

931

AGCTCTTTTT TGTGTATTT TTTCCCATC TTATCATCC

9399

(2) INFORMATION FOR SEQ ID NO: 15:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 9360 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

|   |      |
|---|------|
| GGGGTACAAC AGAACGTAGA AGTTGAGGCT GGTGGTGGGG ATGACTTGTA CGGAATATGC | 60   |
| ACTGATATAG ATGAGTTTAC TGGCATGGCA ACTGTAGTTC CAATTACAAA TAACTTCACA | 120  |
| GGGTATTTAA CATTAAAGAA AAATGGACAA AATGGTGTGA ATCCGGGTGA TAAGCTGCAT | 180  |
| TTTAATGCAC AAGGAGAGCT TGAAAAGAAT GGGGGAAATG ATAAATCTGT TAATGCTATA | 240  |
| GCACTTTCAA AAGTACATAA ATTAAGTAA GAGTTATCTA TAGTGCTTGC TAGTGTTTTT  | 300  |
| GGGAATAGAG CTTTAAAAGG TAATTAAATT ATGGCTTTAA AAGGCAAAGG GCAAGCTAAA | 360  |
| TCTCCTAATG TTGATGATAA TCCACAATTA GGGTTAGAAT CAGAAATTC AGCTGCTCCT  | 420  |
| AGATCTAAAC GTCAAACAAG ACAGGCTGAA GAAGTACAAG CAAAAGATCC TTATTTAGAT | 480  |
| TCAGTTAAAG AACTTGACGA TGTCTTTTAA AAATTTAAAA AATATTCAAA ATCAATGAGT | 540  |
| TCGATTGAAA ATAGGGTTTT TAGTAGTTCG GGTGGTTGTT TTAAATTAAA GAATGAGCGA | 600  |
| GTTAATGCTT ATTCTTTTAC ATGTTCAAGC TTTGCAGACA AAATAGAAGA ATACCTTTAT | 660  |
| GATCCAGCAA ATAGTTTTCC ATATAAGCGT GGGGTAAAC TTGTTCCAAA AGAGAACTCT  | 720  |
| ATATATGTTG AAGTTGGTGC TGATACTGAT ATGTATGGGA TATGTGTAGA TGTATGTGAG | 780  |
| TTTAGTAGTA CTGCGTATGT ATTACCAATT ACGAATAACT TTGAAGGGTA TCTTGTTACA | 840  |
| AGAAATCCGA GTATAAAAAT GGGAGAAATA TTGGATAAAA GTGCATTTTT TAGAGTTTTT | 900  |
| TCTGGAGATT GTGTACATGC TACGATTTTT TTTATCTTTT CAAAAGAGA ATTTCTTGAA  | 960  |
| TTCTTATTAT TATTTTTTAT TAATTTTTTA TTATATACAG TGACATTTTT AGACTTTAAT | 1020 |
| TTTTCTTTAT TTGATTTTAT TTTTTTGGAT AACTCAAGCT TGATACTAGA AAAATAAGTA | 1080 |
| TCAATTATTG AGTATGAAAT TCTAGAAGTT TGGTATATAC AAAGCTTGCC TTTAAATTGT | 1140 |
| CCTATGTTAT TTGAAAATGT TAGAATTTTT TTATTAATTG CTTTAATTTT AATTAAAAAT | 1200 |
| CTTAAATCTT CTCGTAATGT ACGAATTGTA GTTGGCTTAT ACCCTTCTTT GATTATAAAT | 1260 |
| GAATTTAGTA TATTTAATAT GTCTTGTTGG TGGTGTATAA GAATACAAAG TGCAGTATTT | 1320 |
| GTAATATCTT CTTTATGAAG ATTAATATTA CAATTTTCTT CGAACTTTTT ATTTAGAAAA | 1380 |

|             |            |             |            |            |            |      |
|-------------|------------|-------------|------------|------------|------------|------|
| TTTATTATGC  | TGATTATTTT | TTTAAGCCTA  | AGGTTTTTTT | ATAATAACCT | TTTAGTTTTA | 1440 |
| TAACAATAAT  | TATTGTTATA | GAGATATAAC  | TGATATCATA | TTGAATCTCC | AATTTATCGT | 1500 |
| TTATTCAAAC  | TTTTTTATTA | ATCCTTATTA  | ATAAACTAT  | TATAGTTTAA | ATGGTGCATA | 1560 |
| ATTTTCAACA  | TTTGGCTCG  | AAGATTTTTT  | AAAAAAGTGT | TGTGATTTTC | CTAGTAGAGT | 1620 |
| AAAAGACCAT  | TAGCTTTTGC | TAATGGTCTT  | TTACAAGGTA | TTGATAGTTC | ATAATTTATT | 1680 |
| ATGTAACAT   | CAATACAAAT | GTTATATGCT  | AAAAAATATA | AAATATCAAG | AAATATGAAA | 1740 |
| AAAATTTTCA  | TATTTCTCTA | TTCTGCCATT  | CTAAATGTCA | TTAAATGTTC | TTTTGATTTT | 1800 |
| AGCATTCTAA  | CTAATTTTTT | AGCATCAAGC  | ACATCTCCAT | AAAAGTTGTA | GTAAAAATTA | 1860 |
| TTTACAACTG  | TACTGCTTTG | GGTCTTTTGT  | AATTTAGTAA | TTTCTTCTGA | AATAATTTTA | 1920 |
| GCTTCAAGTT  | TGCATAAATT | TGCATCTATT  | GGTGCAGGAG | TTATTCTTAC | CAATTCGGGT | 1980 |
| TGCCCCAACT  | CACTAGACAT | TACACCTAAG  | TTTGGTATAT | ATGTCGGTTT | ATTTGAAACA | 2040 |
| AATCGTTTAC  | AACCATGAGC | AAGTGTATC   | TCTTCAATAG | ATCCAGCTGA | TTTTACTGTT | 2100 |
| GCAATTCTTT  | TTAGTATTTT | GTCTAAAATT  | TTTTGCATCT | TTCTTAACCT | ATCGGCCTTG | 2160 |
| CCCAAATTCC  | ACCAATTTTT | ATCATTTACC  | TTATCAACTT | CGGCCTGTGC | TTTTATTTCG | 2220 |
| TCGGGCTCTG  | GTTTAGAAAG | TTTGTTTTTT  | CGTCTACTT  | CTAGGTTTTT | AGTCTCTTCG | 2280 |
| GTCTTAGTAA  | GTTGGGTGGT | TTCTATATCT  | TTTTTTGTTT | TATATTGTGT | TTGTACATCG | 2340 |
| TGTAATCTTT  | TTTGAAATTA | TTCAACCAGAT | ATTTGTCCTT | TACTTTGAGC | CTGTTTGAGA | 2400 |
| AATTTTATTT  | CTTTAGTGTA | TACATCATCT  | AATTCGCTCA | ATTTTCTTTT | TTTCATTTTG | 2460 |
| ATTTCTGCAT  | CAAAACGATC | TTCAAGCTTT  | TGAAGTTAAA | CTTCACTTAG | TTTTTTAAGT | 2520 |
| TCCTCCAAAT  | CTTAGTCCCG | TTTTTTTCAA  | CTGCTTTAAT | TCTCGCTTTT | TCATGCCCTT | 2580 |
| TGAAAAATTCC | CCAAATAAAA | TCGGTCAATG  | CTGTTATAAG | TTCTGCAACA | GCTTCTCCCC | 2640 |
| AAGGTCCAAG  | AATTTTTTCA | GCGGCTTTTA  | ACCCACTTTT | CCAAGTTTCG | TACATTTGTT | 2700 |
| TTGACATTTT  | TTCCAAAAT  | TCACCCCAAT  | GCCCATCATG | AATTGCTTCT | CCAATACTTT | 2760 |
| CTCCCATATC  | CTGATTCAAA | AAATTACAGC  | TGACCGATAG | ATCTTTCATA | AAGGCCTTTA | 2820 |
| GGCgTCTAAC  | ATGCGGTCAT | ATAAGCTTTT  | TGACGTATCT | TTAGCTTTCT | CAGCCATTTG | 2880 |
| TTTTAGAGAG  | TTTCTGATGG | TTTCATTTAG  | CTTTTCGAAT | TGCGATTTGT | GCTCATTAC  | 2940 |
| GAATTTTTTG  | TACATTAATT | GAATGTCGGA  | TGCCATCTTT | TCTTCAGCAC | TTGCTCTTTC | 3000 |
| TTTTGCTGGA  | AGTAACATTG | TTTTCTACTC  | TAAGTCGGTT | ATTTCTTTTT | TGCAGAGCTT | 3060 |
| TTTGAGCCTC  | GACAAAAGAT | CGATCTAAAG  | AGGTTTTTTC | AAATTCCTTA | ACCTGATTTT | 3120 |

|          |            |         |         |        |         |         |         |         |         |         |            |      |      |
|----------|------------|---------|---------|--------|---------|---------|---------|---------|---------|---------|------------|------|------|
| CAAGTGC  | GAT TACA   | ACTTGC  | CTGTTA  | GA     | CTCGTT  | CAGAGT  | TTCGAA  | ACTT    | TTTCCA  | TATT    | 3180       |      |      |
| TTTCTAC  | GAA CGC    | TTTGTTC | TTTTCA  | T      | TG      | ATTGA   | TTTCAT  | CATT    | CAGTTT  | CTGT    | AAAGCA     | CTTT | 3240 |
| CTTCATC  | TAT ATG    | GGGTAG  | GTTAAT  | CGTA   | TTTTTC  | TTTC    | ACGACT  | TTTCT   | TTTTCT  | TTTTA   |            | 3300 |      |
| GATAGATA | CT AGT     | CTATTTT | TATCTA  | GA     | TATAC   | CCCCC   | CA      | AAAAA   | AGCA    | ATTTAC  | TTTT       | 3360 |      |
| GTATTTT  | TGT GCT    | TTTGTAT | TGTTA   | ATAAT  | TTGAC   | CTGTA   | CATCGA  | TTTC    | TTTTAT  | TTAC    |            | 3420 |      |
| CATTTG   | CTTG TAC   | GCTTGTA | C       |        | TAGAAA  | ACTG    | ATATTG  | TCTA    | TTTGCG  | AA      | TC         | 3480 |      |
| AAGGTCT  | CCT TC     | CTAGTCA | AA      | TTTTGA | ACTT    | AATGTT  | GTAC    | TTTTTT  | TCAT    | TGCATC  | CAAA       | 3540 |      |
| AATGCA   | AGCT TAG   | CGTCTTT | TACACT  | CAGA   | ATATTT  | GC      | AA      | AAGGTG  | GAGC    | AATTT   | CATAC      | 3600 |      |
| TGCTCACA | AG CTTT    | CTCAAA  | ATTTGA  | CAAA   | ATTTTG  | GAA     | ATTTTG  | AA      | AGC     | ATTAAC  | CTCG       | 3660 |      |
| GTTTGC   | CTTT CGG   | CTTGT   | TTT     | TCAAGC | TTTC    | GTAAAG  | TTAC    | TCTCAG  | CCTC    | AGCAAG  | TCGT       | 3720 |      |
| TTTTCA   | AAAT CTT   | CTCGTGA | TATCAT  | GTCT   | GGCAAT  | TTTTT   | TTCATC  | AGCC    | ACTAAC  | CGTT    |            | 3780 |      |
| CATATTC  | TTC TGA    | AGATATT | GTTACA  | AGTT   | CTTTGT  | CATT    | TTTTGG  | CAAA    | GATTCAG | GAA     |            | 3840 |      |
| TTGTAAC  | AGT TTCT   | TCATTT  | ATTTGT  | TCTT   | GCATAT  | TGCC    | CTCCTT  | AAAA    | TTAAAT  | TTTTC   |            | 3900 |      |
| TAAATTT  | GC AGT     | ACTGATT | CATTTCA | TCT    | TGTATTT | TTA     | AATACAA | ACT     | ATCATTT | CCC     |            | 3960 |      |
| ATTTCT   | TTTTG CTTT | ACTTAA  | AAGCTC  | CACA   | TAAGTT  | GC      | TA      | AGGTTTT | GC      | ATGTTT  | TCA        | 4020 |      |
| TCAATTT  | TGG CTTG   | TCTTT   | TTGACT  | AA     | TT      | GGTTTT  | ACTG    | GTTTG   | TAACA   | CCAATT  | AG         | 4080 |      |
| CTCAATC  | CAA ATTTT  | GAAAG   | TACCGC  | ATTA   | ATGAAT  | GGCG    | GTACC   | ATTAG   | TTTGC   | ATATC   |            | 4140 |      |
| TGTTAA   | ATGT TTAG  | ATATGA  | TAAATA  | AA     | TC      | AAGTGA  | TA      | ATATG   | TTTTT   | TCTTTG  | CCAA       | 4200 |      |
| TAAAGTA  | TTA GAC    | CGCTTA  | AAATAG  | AACG   | AATGAA  | AGTA    | TCTATA  | AA      | GA      | CAATAG  | AATG       | 4260 |      |
| TATTTT   | CTAG AAC   | CTTCACA | AAGTAT  | TAA    | CTTATA  | GAAA    | AGAAAG  | AA      | GA      | TACAAAA |            | 4320 |      |
| GAAAATA  | GAA TTATA  | ATATC   | ACTTGG  | CGTG   | TAGTG   | ATATT   | ATAATT  | CTAT    | TTATAT  | TTAT    |            | 4380 |      |
| TCATTAA  | ATT CTTT   | AAGATT  | TTGTAT  | TATT   | TCGTCA  | ATTT    | CTTTTT  | GTAC    | ATTAAT  | TGTA    |            | 4440 |      |
| TAGCTAA  | GCA CTTT   | TATAAC  | TTTCTC  | AA     | GTA     | TCAATTT | CGTCTT  | CATT    | TTCAT   | TAA     |            | 4500 |      |
| ATAAGTT  | CTT TCC    | CTTTCT  | GTACTT  | TAA    | TAAC    | TTTTTA  | GCACTT  | GATA    | ACTTCC  | AATT    |            | 4560 |      |
| TTGTATT  | CAT ATAC   | TTCTTT  | AGCTAC  | ATTA   | GTAA    | ACAAC   | ATGTTG  | AA      | TT      | AGTAA   | AGT        | 4620 |      |
| TCTTTT   | GTGT CTT   | CTTTATA | AGTAAT  | TTTC   | TCTACA  | ATAC    | GATTAT  | AGTC    | TCCAGT  | GTGA    |            | 4680 |      |
| TTACCA   | ATAC TATT  | GTTGAG  | CTTTAA  | ATTA   | TCTTTT  | AA      | TAATA   | AATGAG  | AA      | TT      |            | 4740 |      |
| GTTCCA   | AGCT TACT  | AAGCTC  | TAAAA   | ATGCA  | TCTAC   | ATTAT   | TTACAA  | AA      | AATCT   | TAGGA   |            | 4800 |      |
| TAGTCT   | ATTT TTAA  | AAATTC  | GTA     | AA     | TTTTT   | TCTCTA  | TAA     | GAT     | TTTGAG  | TA      | TAGCACTGCA | 4860 |      |
| TAGATATA | AC CAA     | ATATTT  | CTGAGTA | AATAT  | TTTTT   | TAC     | TGTAT   | TTAGT   | ATTAATA | AA      |            | 4920 |      |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| TCTCTAAAAA | TATCTTTATT | GTCCTTTTCA | TCCTTCTTAA  | AGTTTTCTTT | TTTTATATTT  | 4980 |
| TTAAATACAC | CTTGATTTTC | TTTTATATAA | AGTGGAAAAA  | GATAGCATGA | TTCACCTACCT | 5040 |
| TTATTTGAAA | CAAAACATTT | ATCCGAAATT | TCAGAAGTAA  | CCAAAGCATG | TTTAAACTA   | 5100 |
| TTTGTTGATA | AAAGCCTTGT | TGTAACAAGT | CCTATATTGC  | CTTCAATTTT | TAAAATATGT  | 5160 |
| TTTATTGTTT | TATATCTTGG | CTCTACTACA | ACCCCTTTAT  | TTTTAGAATA | ATAAGTAAAT  | 5220 |
| CTATTATCAA | ATGGTCTATA | TGATATTTCT | TTAACATAAC  | TTTTATTAAA | ATTGGTATTT  | 5280 |
| TTTAAAAATT | TTTGAATTTT | TGATAACTTC | CAAAACATAG  | AATCTTTTTT | TATATCATAT  | 5340 |
| TTGTTTCCTG | CATCTTGTTT | TGGTAAATAT | GCAAAATCCC  | TAAGTTTATC | CATAAGGTTA  | 5400 |
| TCTTTTGTAT | AATCAATCGC | TATTTTGTCT | TTTCTAGTTA  | CTATTCCAAC | ATTAAATTCA  | 5460 |
| TTAAAAATAT | CTATTAAAGA | TTTTCCTTTA | TTATAAATAT  | CTTCATTTGA | TAAATCTTTT  | 5520 |
| TTAAGAAAAA | AATAATTAGG | CTCTTTATAG | TCAAGTTTTT  | CAAAATTAAG | ATCATAAATA  | 5580 |
| TGATTTTTAT | TTAAAAATC  | ATATTTATGA | TCTCTTTTTT  | CTTTTATACT | GCTGTAGTAT  | 5640 |
| ACATTAGCCA | GTTTCTCTT  | TTTTTCTTTT | TCTTTATATT  | TAGCAAAAAT | AGCAATTGCA  | 5700 |
| ACCCAGTTT  | GAATGTCAAA | TACATTTTCA | TCTATACTAC  | CATCGTCAGT | TTTTTCTTTT  | 5760 |
| TTACGCGAAC | TACCATGTAG | ATTAAGGATG | TAGATTTTAT  | CAAAAGTGCT | TAGCAATGA   | 5820 |
| TGTCTCATGC | CTCTGAATGT | GATGTTATCA | AGGTATCCAT  | TGTTTGTAT  | AATTCCAAGA  | 5880 |
| AGTCCTTCTT | CACTGCCTTT | AATAGTTAAC | AATCCTTCTT  | TTTTATTGCT | CTCTAATTTA  | 5940 |
| TTCTCTGCAA | ATCTAATAAA | CTTAACATAA | TCATCATTA   | GTGTTTTAGT | ATTTCTTTCA  | 6000 |
| TTTATAGGAC | TATTTTTTAT | TTTTTTATAA | TCATTAACATA | AATTCAATAT | ATATTGATTA  | 6060 |
| TTATTTTTTG | ACTCTGCACT | ATAAGGAGGA | TTTCCAAGTA  | TTACTAGTAT | TGGATTACGT  | 6120 |
| TTAATTTTAT | TTGGCTTCTT | TCGTCTCTTT | TGCAATATCT  | TTAAAAAAG  | AAAAAGAAAA  | 6180 |
| GAATTTCTGA | TCTGTAATTT | CTTTTAAGTC | AAGAGTGTTA  | GTAAAGTACA | CTTTGAGCTT  | 6240 |
| TGAATCCTTA | TTAAAGTCAA | CTTTGCAAAC | TTCTTTTTAA  | TACTGACTTA | ATTTAAGGTG  | 6300 |
| TGTTACAGCA | TAAGGTGCCA | TTAAATATTC | AAAACCATAT  | AAGTTTTTAA | GTATATGTAG  | 6360 |
| ATTAATATAG | TCTTTTTGTC | TACCAGATTC | CTCTGGGATT  | TCCTTTAGTA | TTATAGTACG  | 6420 |
| AATAACTTCA | AGTAAAAATG | TACCTGTTCC | TGTTGCAAAG  | TCCAGTACTG | TAACTTTTTC  | 6480 |
| TTTATTTGCA | AGGCCATGAT | TTAACTTAAA | TTCTTTTTTA  | AGCATTTTAT | TTAAACTACT  | 6540 |
| AACAATAAAA | CTAACAATAG | GGCTAGGGGT | GTAGTAAACT  | CCTTTTGCCT | TCCTTAAGGA  | 6600 |
| TACATCGTAT | TTAGCAAGAA | AATCTTCATA | AAAATAAAGA  | TAGGGATCCT | TTAAATTTAA  | 6660 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| GCTAGAATTA | GTAAATGAAA | ATTCATTAAA | AATAAGTTTT | GTATCAATAT | TATTTACTAT  | 6720 |
| GCTTATAATA | CTTTCTAAAA | TCCATCTTAA | GTAATTAAAT | TCACTATCTT | TATGGATATC  | 6780 |
| TTTAATTAGT | TTTATAATGT | TTTGTATAAG | TGAAAAATTA | GTAGGTATAA | AGTTTTCAAT  | 6840 |
| ATTTTTAAAA | TTAATTTCTA | TATTTTCTTT | ACTATTAAGA | CGAGCAATAA | AAAGTCCATA  | 6900 |
| TGTAATAGTT | TGAGCGATTG | AATCTGAAAA | TTCTGAAATA | TTAAAATCAT | CGCTATAAAT  | 6960 |
| ACTTTTTTTA | AGTATTCTAC | AAGTTGAAAC | TAAAACATTT | AGCTCACCTA | GTTCTGATTC  | 7020 |
| ATCAATATCT | AAATTTAGTT | TTTCTTTATT | TTCTTTAAG  | TTTACTTCAA | TCTCTTCTTT  | 7080 |
| TAAAGATTTA | GTTTTACTTG | CAAGTAGGCT | AGCTAAAGCT | TCAATACTTT | TTATTTTTTC  | 7140 |
| AAAATGAGAG | TTAAAGAACT | CAAATAAAAT | ATTTATAATT | TTGGTTAATT | TATTTTTTATC | 7200 |
| GAGTTTGGTA | TCTTCACTAT | ATAGCTCTTC | TTTAGTTAGT | AAAGACCCTC | TTAGTTTAAT  | 7260 |
| CTCTTTGTCT | TTAATCCATA | TAAACTCAAT | ATAATTTGTA | AGAAGTATAC | TGCGTGTTAT  | 7320 |
| ATTTTTGTAT | TTTTCAATTT | GGGAACTTTT | TAGTATTTCT | TCTAAGTTTT | GCTCAACTTT  | 7380 |
| TTTAACTTCA | ATACACCCTA | TAGTACCCTG | GGTTATATTA | TGCTAACAA  | TATAGTCGGG  | 7440 |
| TGATCCAAAT | CCTTCTTTGC | TTCTGCTTGG | CTCATGCTGA | ATAGCAATGC | TTGAATTTTG  | 7500 |
| ATTAATTTTA | TTAAAATCAT | TAAGTAAATT | TTCTAAATGA | GTTCTGTTAG | AATACTCTGT  | 7560 |
| TTTTTCTTCT | AATTTTGTAC | TTTTTAGATT | AGCTATATAT | TCTTTTGCCT | TTTTAAATAG  | 7620 |
| AGATTCATTA | TTATTCATTT | TTATAAATAT | AAAAGATATA | TAGTTTAATA | TCAACTAAAC  | 7680 |
| TATATATTTG | AAAAAACTAT | TTTTGTCTCT | AGCATATAAC | AAAAATAAAA | CTTTCTAAGT  | 7740 |
| TTCGATATAT | TGCTTTCATG | TCAGAATTTA | ATTTTTCAAA | TGTTTTTAAA | TTTTCAGTTT  | 7800 |
| TAATATTATT | GCTATTGCTA | CTATTTATAG | TAAATCTTTT | ATTATTTTTT | TATTGTCTAA  | 7860 |
| TAACACGATT | TTTTCATTA  | ACATACTAAA | AGAGTTTTTA | ATAATATTCT | TAAATATTTT  | 7920 |
| ATCTGAATTT | TTCTGATCAA | AGTTAATTTT | AGTTTTAAAA | AATTTAAGAA | ACTCATCGCT  | 7980 |
| TGTATTCTTA | ATCTCTTTTT | TAAATAAACT | AAAAATTTGT | CTGTATATTT | TTTCTCTAAT  | 8040 |
| GTAAAAGATC | TAGCTTCTTC | AATATTTAAA | GAATTTCTAG | AAAATTTTTT | AAGATATTCA  | 8100 |
| AAATCTTCAG | ATGTTAATTT | CTCTAAATTA | ATAATCATAA | AAGGCTCATT | GTCTAGTGAA  | 8160 |
| TTATCTTTAT | CCAAATGGCA | TAGAATATAG | ATTCTATGCC | ATTTGGTAAT | ATGCCCAATT  | 8220 |
| TAATTGCATA | TTTAGAAAGA | AGATTATAAA | AATAATCTGA | TAATTGACTA | AAATGATTTT  | 8280 |
| CAAGATTTTC | TTTATGATGC | TTAACTTCTA | AAAAATAGTA | GGATTTTTAT | CCTTAGAATA  | 8340 |
| AAGAACATAG | ATCGCTTTTA | TTTCATTTTT | TCTAGTAACA | ATAATTGAAA | CTTCAACTTA  | 8400 |
| AACACATGAA | GGATTAGTAT | GACAATAACT | CATTGCATCT | AAAAATGGGT | CAATAAAAAA  | 8460 |



CGGTCTTTTT TTTAGCTTCT ATTTTAAGAC CATCCTTATG AGTTTGTATT TTTTACTTA 8520  
CAATACATTG ATATAAAAAT TTACCTAATT TCATTATTAA TATATTTAGT AGCGTTTTTA 8580  
ATTACAATTT TTTATATACC TAATGATAAA AATACAGATC ATAATCATAG TAAAGAAGAT 8640  
TTAAGTTTAT ATATTATGAA GTTTAAAAAA ATTGTAACAA CATTATTACA ATCTAAAGAA 8700  
CTTTTAGAAT TATTTATTTT AATTGGCTTT ATTCAATTTT TTTATCAACC TTTTATTTTA 8760  
AATTGGCAAG CAATTTTTAT TGACAAAACC ATATCTATTA GTATATTTGG AATTATCTAT 8820  
GTGCTATTTA GTTTATCAGA TATTGTGGGG GCATGGGTAT TTAGAAGAAT TAAACATACA 8880  
AAATATGATA TTTATATCAT ATTAACCATA ATATTGTTGT TATAAGCTTT AATAAAAATA 8940  
GTTTCACATA TTTATATATT TATTGCTGTA ATCACATTTT TAGTAATTTT AATTGCTATT 9000  
TATTCTAACA ATTTAGAATA TTTTSTAAGG AAAAATATAG ATTCAAAGGT TTTAGGAACC 9060  
ATAACTTCTA TTAATAGTGT AATATCCCGC ATATTTTCAT TTTTAGCATT GGCTATATGT 9120  
TTGAATTTAA CTAATTTTAT AAGCGCTATA AATACATTTG TTTTATTAAT ACTTATTTTT 9180  
TGTACATTAT CTATTATTGT GGTGATTGCG CAACTATAA TTTAATTTTT AAAAATATTT 9240  
AACCTATAGC TTAATATGAC GTTAGATGGA TTTAATTTAA TTAAATTCGA GTTAAATGTG 9300  
CTTTTTATTA TCCCCGTGAA AACCCTTTCA GCAGAAATAA TACAAGAATT TTTAAGCCAG 9360

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 8905 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

AGTCTGAnGT GGGCCCTTnA ATATAAATAA AAAGGTTGAT AAAAAAATCG AATAGCGTCC 60  
ATTAAAATAA ATAATTCTAA AAGTTCCTTA GATTTTACTA ATATTTTTTTT AAACTTTATG 120  
GGATATAAAG TTAAATTTTA TTTATTATGC TTATGATCTA TATTCTTATC ATTTGGTATG 180  
AAAAAATTGT AATTAAAGAG GATATTAAAT ATTAAATATT AAAATATATT AATAATAAAA 240  
TTAAGTAAAT TTTTATATCA ATGGTAGTAT TTTACAATTT ATTTTGAAT TTCATTCAAT 300  
ATGGGCTACT AAAAATACTC GAGACAGCAT AATCTTAAAT AAAAAGAATA CGGCTTCTAA 360  
AAGAAAAGTG AAAAGTAAAA GAAGTTCTAA AGAGAAAAAT CAAAATTATT TATACACTAA 420  
ATAAATAGTT CAAGGTTTAG AAGAATCTTT AAATAATAAT AAGTCAAATG GAACATAATAG 480

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| TGGATCGGGC | TCTGCGTTGC  | TTGAAAATTT  | AAAAAAAGTA  | ACAAAAAGGT | TGTATATAGA | 540  |
| TAGTTGAAAA | ATCACAAAGT  | TTGTTGCATA  | TAAATCATGC  | AAATGAAGCA | TTTAAGGAGA | 600  |
| TCAGTTCTGC | AAAAGATAAA  | ATTGACAGTT  | CCGATATAGG  | TAAAGGAATT | GTTGATGTTT | 660  |
| AAAAAACGCA | TAATAGATTA  | CATGATTTAT  | TGCGAGACAT  | AAAGACTGAA | TTTTATAGCC | 720  |
| AAAAGAATTC | ATTTTTTAAAT | GGTGTTAGAG  | CTGAGAAAAG  | TAAGAAAAAG | AATCAAATAC | 780  |
| TATTTAGATC | TACTTCCTCT  | ATAAATGGAA  | AAATTAGAAA  | TGCAAATTAT | ATACTTTAAC | 840  |
| ATCCTCTTTA | AAAATTTTCT  | AAC TTGGTTG | TAGAAGCCGT  | GCAATTGCTA | TTTGAGAGCA | 900  |
| TACCATTTTG | ATTTTTAATA  | GCAACTCACT  | AATGATTTAT  | AGTGCTTTAT | TTATTGTATT | 960  |
| CAATTCAAAA | AAATACTAGA  | TCACCGGGTT  | TTGGTGCTGG  | GAATATGGAA | GAAAGCAGAA | 1020 |
| AATTATGTTG | ACAAGTTTGA  | TGAACTTATA  | ATTGTCAAGA  | ATAAAGAATT | ATTTGTTATT | 1080 |
| TAAATTGAAA | GATATGATTC  | TAATAGAAAA  | TATTATCCTT  | TAATTAGATT | TGCAAATTTA | 1140 |
| ATTGAATTTG | AAATTTTTTAA | AATTTAATTG  | CAGAAAAACT  | TTTACTGAC  | AATCAAGTTT | 1200 |
| TAAACAATTT | CAACAAACAA  | GCAAGCTTTG  | ATTAAGCCCCG | TTTGTAACAA | AACATCTGAA | 1260 |
| TTTTTAAACA | GCAATGCACT  | AAGTGAGAGT  | TCTTTTTTTTA | TTGAATTATA | TCTGTTAATT | 1320 |
| TAAAGCCCCG | TTATTGGTTT  | TGATATGTAG  | AAGCTTTGAG  | AAGCTTGAAT | AATTTGTTTG | 1380 |
| ATGTGAAATA | TATTTTTTATA | ATAAAAAATC  | CAGCTATTAT  | AAACAAAGAT | TATTAACTT  | 1440 |
| TAATTTACAT | TAAAGGGAAA  | GAACAATACT  | ATTTTATAAT  | TTTCTTTTTT | AGAGAATTTT | 1500 |
| TTAATTAAAA | AAGTTAATTA  | TACATACATA  | TTTATATAAA  | TATGTATTGA | TTCTAATTTA | 1560 |
| ATTATATTTT | AATTATCTCT  | TGAGTTAATT  | AAAATATAAT  | GACAATAATA | TACTTAAAAA | 1620 |
| GTTTGCAGGT | TTAATGTTAG  | GTGTTGTCAA  | GGGTATCTTT  | GTTGCATCTT | AAATCTCTAG | 1680 |
| ATAAATGTTT | TTTCTCTATG  | TAATATAACC  | TTTCTCCTAA  | ATGTCGTATC | TATAAAAACA | 1740 |
| TAAGCCCCAG | GTGTTTTTTAA | GTTTTTTGTAA | CTTATGTATC  | ACAAAAAATA | TACATAATAT | 1800 |
| TGGTTCATTG | CGGCGTGTTT  | ATACTAATTT  | TGTTTATGAT  | TATGCATTTT | GGTTGTCAAA | 1860 |
| AATAGCTGAA | GATTATTTTC  | CAGATGCAAA  | GGATATAGTA  | TGTATAAGAG | GTATTAAGAA | 1920 |
| AAAGCCTTAT | ATATAACAGT  | CCTACTGCAG  | GGTATAACGA  | TCATTACTAT | GCCTGGATAA | 1980 |
| ATAATGTTAA | AGTCGTAATA  | AAGCGGGCTA  | AAAATATGCT  | TAAGATGTTA | AGCATAAACA | 2040 |
| AAAAAATACT | AACGACAAGA  | TAGATCAAGC  | AAAATTAGAC  | TTTGATAAAT | TAAAAAGGAT | 2100 |
| ATATGATACT | TTTAAAATTT  | TAGACCCTAG  | ACCCTAGACC  | CTAGACCCTA | GACCCTAGAC | 2160 |
| CCTAGGTAGC | AAAATAAAGG  | CGTAAAAAAA  | TAATAGCTCC  | CTTTGTAAAG | TTTATTATAA | 2220 |
| GAGAACATTT | ATTGCATTTT  | TATTTTTGTA  | ACAGATATAA  | AAACAATCCT | ATTACTGCGG | 2280 |

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|--|------|
| GAATAAATAT TCCTAATATC CAGTAAAATG GAAATATTAA ACCTTTGACT TGTTTACTAA  | 2340 |
| GTTCACTTCT TACGTCTGTT ATTTTGTAG AAAGTTCAAT TCTTGCTCTT TCTATCTTTT   | 2400 |
| CATCTAATTT TCTTATCCCA TTTTAAATT CATCTCTAGC TCCCAATCAT TTGCTTTTCA   | 2460 |
| AGCATACTTA TTCTGGTTTC TAGATTTTCAT TAATTAGAAT TTAAATTGCT AAGTAACATG | 2520 |
| TGCTCTACAA CATCTTCTGG AAAATCTTTA TCAAGATGGC GATATTTTAA AAAAAATTAC  | 2580 |
| AATTCTTTTT AGTTTGCTCT TGATATTGCT TATCTCAATA CTTATTAAGT CAATATTCCG  | 2640 |
| TAATAAGTTT CTATGTCTTT TGAATACAAG ATAATAGTAA GTATTATATA CAAATAAAAA  | 2700 |
| CACTATTATT AATTTCTTTT TATTACAAA ATAAAAACAG AGTTAAATGT ATATTATCCT   | 2760 |
| GTAGATTTC ATTTTAATTA AAGATTTAAT AGAAAAGGAA GGATAAGCCA GCACAAAATT   | 2820 |
| ATTCTTCCTT CCTTACTTCC ATCTTTTATT TATTTAAGTA TTTAACAAGG CCACAACCTC  | 2880 |
| TTGTACTATT TCCTTTGCAT TCTTAGCTAT TTGTAATACT AACTCTGCTG CTTCTTTTAT  | 2940 |
| ATCTGCAAGC TTTGTATTGT TCGTAGTTTC TGTCTTTATT TTATCCAATG TCTCTTTGAC  | 3000 |
| TGTATTTTCT ACATCAATTA ACTTATCTTT TGCTTCTACT GTAGCTTTCC AAGCTATTTT  | 3060 |
| TACGGCCTCT TTAGCTTGTT TTATTTTCAGC AGAATCAGAA TAGTCAGATT CTGATTCTGA | 3120 |
| TTCTGATATT TTTTGTTGCT CTTTATACAG TTTTTCATG TTTTGTTCTG CTGCTTTAGT   | 3180 |
| AAGGCTATAT GCTTCTTTTG CAAGATTAGA TGCAAATATT GCTTTATCAC TAGAGTTCTT  | 3240 |
| TATTTTTTCT AAATCTATTT CTGCCATTTG AGCTAAATCA TGCATATTTT TTGTTGCACT  | 3300 |
| TTTTACTTGA TCTGCAGCAG ATGAAATTAA ATTAAGTCA TTTATAACCG CTTCTACAAC   | 3360 |
| TTTATTTGCC TCATTTGATG CATTTAAATT ATCTGTTGTA TTTTGGCTT CTTTGTAGTA   | 3420 |
| ATTTGTAGTT TGCTTTAATA ACTGATTTAA CTCACCTAAT ATGCTCTGTT TTTTGTATTC  | 3480 |
| GTAATTTGAA TTTGCGCCTT CATTATCTAA ATATCCTTTT TGATTATTTA AATTAGATTT  | 3540 |
| TGATGATAAT TCTTGTTTAT CATGAACACA AGATATTGAG AGCAATAAAA ATAACTTAA   | 3600 |
| CAGTAGTATT TTTATTAATT TTTTCATATT TATACTCCTT AAATATAATG TCTTAAATTA  | 3660 |
| TATTTTAATA TCAATTATAT TTCAATATCA ATTATATTTT AATATCAATT ATATTTTAAT  | 3720 |
| ATCAATTATA TTTTAATATC AATTATATTT TAATATCAAT TATATTTTAA TATCAATTGC  | 3780 |
| CTACTAATTT CTATTTAGCT TGGCTAGCTT AAGGCTAAGA AAACAATAGT GAGTATTGAA  | 3840 |
| AGGATGTTTA ATGATGCTAA AAACAAGCAA AAAAATTAAC TTTTATAGAG AATTGTCTTT  | 3900 |
| AATTTGCGGT GTTATCTATA AACTATGTGA AAAGCTATTA TATAGCTAGC AAGCTTTATC  | 3960 |
| TAATAATAAG TCTTTGAAAA ATGATAGTAA AAGTATGGAT TCTCCTAATA ATTTAGATAA  | 4020 |

|            |             |            |             |             |            |      |
|------------|-------------|------------|-------------|-------------|------------|------|
| CGGTATTTTA | AATAATGCAG  | GAAATACAGT | AGAGACGTAA  | GGCTAGAAGT  | ATGATTATTT | 4080 |
| TTATAATGTT | GATGAGCAAA  | TTAATAAAAA | AGAATATATC  | TTAGTATAAT  | TCCATGCTTG | 4140 |
| ATTACTAATA | TAAGAGAGCC  | TTCTTTTAAA | GAAGGCTCTA  | ATTTAAATAT  | ATTAATATTT | 4200 |
| AAATATTTTC | TTATTCATTT  | TAAGATTTAC | TTAAAACAGT  | CTTTGCATTT  | TCAATAAGTT | 4260 |
| CTTTTATAAT | TCTCCTTCTT  | CCCATGGCCA | AACCTCTTTT  | AGAAGAAGAA  | GCTTCTAAGC | 4320 |
| TCTTTAAAGC | ATCTTCTACT  | TTATTTAAAG | CCTGTCTAGC  | TAATTGTGAT  | GCCACTTTAT | 4380 |
| TTTCACTTTC | CAATCTTTTA  | ATAATGCCTT | CTTTTAAAAT  | TTCCTTAGCT  | TCATTAAAAA | 4440 |
| AGAAAGCCGC | AGATCTTATC  | TCTTGTTCTG | CAATATCAAT  | GTGAACCATA  | ATTTCATCAA | 4500 |
| GTTCATCCAC | TATCTTTAAA  | TTATTTTGCA | ATTGTGTTAG  | TTCCTTTATT  | TTATCTCTAT | 4560 |
| TGTTACGACC | ATTTTTTATT  | AATGATGTTT | TTTTGTTCCT  | AATTTTAGTT  | ATCACATCAT | 4620 |
| AGAAATTATT | TCTTATTAAA  | GTATATTCAT | GTTTAAGTGA  | ATACATACTC  | TCAATTAACT | 4680 |
| CGGGAAATCC | AGAGTCTCTA  | ATAAGATTCT | CTATATCTTT  | AATTGCTTTA  | TCTGCTTTCT | 4740 |
| TTTCTTCCTT | AGTAGAAGGG  | GAAAGATCTT | CTTTTTTTTAT | CTCTTTTTTTT | TGATTGTGCT | 4800 |
| TAATTGAAAT | GGTTGGTATA  | CTAACCTTAT | TAGCAGATGT  | CTCTAAAGAC  | ACTACATGCC | 4860 |
| CTACAGGGAG | GA CTGCGGAC | TCTATATTGC | CTACAGTAGT  | GGGTCTTGTG  | GATGCTAAGG | 4920 |
| ATTTTGCGAG | AGCAATTAAA  | CTCTCGTCTT | TCAATTCCTC  | AAAATTTTTTA | AAATCCTTTT | 4980 |
| TTTCTTCTTG | ATTCCCATAT  | AAATTATTAA | GAGCATTTTC  | TTGAACACTA  | CTACCCAAAG | 5040 |
| TTTCTTTTAT | ATCATTGTTA  | TTTTTTTGCT | CTTTATTAGG  | CAATTTAGAA  | TCTAGATTAC | 5100 |
| AAGATATCAA | TCCTATCGTT  | AACAATGTAT | ATAAAAACAA  | ATTTTTTTTG  | CATAAAAATA | 5160 |
| TCCCCCTTTC | CTCTTTACTG  | AGAATATATA | TTATAAATAA  | TAATAATTCT  | TAATTAATAT | 5220 |
| TATATATCAT | TTTGTTTGAA  | TTACAATAAA | ATATAAATAA  | AAATTTATAT  | TTATACTTTT | 5280 |
| TTATTTATTA | ATCATTTGCA  | GAATATTTGA | TAAGCTTTGA  | ACTACTATTT  | CACTTCAGAA | 5340 |
| AGAAATTAAC | AAGTTGTTTA  | ACTAAAAGTA | ACAAAGAATT  | CTTCACCTAT  | AATTTCTATG | 5400 |
| AAATTTAGGT | GGAGATGAAT  | TTGCTAATAA | ATAGGTTTAT  | TTTTATTTTG  | AATATATTTT | 5460 |
| TTGATGATAT | CAATAGAGGC  | GTTCCCTCTC | TCTATAGAGA  | TAAGGCAATA  | GCTTCTAGAC | 5520 |
| CAAAAATAAG | GTTTTAGCA   | ATACTTATCT | AAATAAGTAT  | AATATTTTTT  | CTTATAAATA | 5580 |
| AGCCTTGAAT | ATTCTGTTTT  | TAGATTGTCG | ATGAATTTAG  | AAGGCTAAAT  | ATTGAGGGTA | 5640 |
| AATTCTAGTA | ATAAATGAAT  | ATGATCTTTA | TCATGGTTGA  | ATTCATTAAG  | GTTCTTTTTC | 5700 |
| CATAAAGAGC | ATATTATATT  | AAGTATTATT | TAGTAAAGGG  | AAGATGAAAA  | CCTATCATTT | 5760 |
| TATGATTTAT | GCCTATATTT  | AGTAACTAAT | ACTAGGTGAT  | AATTAATTGA  | ATATACACAG | 5820 |

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|--|------|
| TGATTATTAA TGGTTATCTT CTGTGACATA TACGCTTAAG TATAAAATAT TATAAAATGA  | 5880 |
| TAGAATAATT AGCGCTAATA AAGCTTATAA GCATAGAATA TATCTTAACG GCAATCAAAA  | 5940 |
| AAATACTTTT CAAAAGTATT TGGATGTGTA AAATTTTTGT ATAACAAAAT GTTAAGTGAC  | 6000 |
| AAGAAAGATT ATTATGAAAA ATAAACAAAG TCTTATTACC TATCCAAGTA AATATAAATA  | 6060 |
| AGAATTTCTA TTCTTAAAGA AAGTTAATAG TTTAGCTCTT TGTAATGTCC AGCTTGACTT  | 6120 |
| AAACTCTGCA TATAATAATT TTTTAGATAA ATTAaaaaAG GAAATAGAAC ACAATAATTT  | 6180 |
| TCTAAATATG AAAGTAAGAA AATAATAAAA CTTTTAGAAC TAATAATCAA AAAAaCTCAA  | 6240 |
| TAAGAATGGA AAATTGTTAT ATAAAGCTAT CTAAAATGGG GTTTGTAAAG CTATGTCTAC  | 6300 |
| ATAAGATGCA TTAAAGACAA TGAGCTTATT AAAAATGTAT TAGTAGAAAA AAGATGTTGA  | 6360 |
| TGATAAATAT TATATTTCAA TAACAGTTTA GTGCTTAGAT ACTAAaAATA ACAGTGAAAC  | 6420 |
| TAAAGGCAAT AAAAAAGAGA TATTTGGTAT TGATATGAGT ATGAGATGCT TTTTAGTAAG  | 6480 |
| TAGTGAAGGT TAGAAAATCA AGTATCCTAA ATATTTACTA AAAAATGAAA ATAAACTTAA  | 6540 |
| AAAATACCAA AAAAaCTATC GAGAAAGCAA AAAGGTTATA TTAATAGAGC TAAATCTAGA  | 6600 |
| TTAAGAGTTG CCAAGCTACA CAAGAAAATT TAAAATCAAA GAAAAGACTT TTTGCACGAA  | 6660 |
| TTATCTTATT ACTTTGTATC CAATTATAAA AACATAGTAA TAGAAAAaTTT ATCAATTAAA | 6720 |
| GGTATGCAAA AAGGAATGTT TGGAAAAAGT ATTAATAATT AAGGATGGTC TGAGTTCGTA  | 6780 |
| AGACAATTAC CATATAAATC AGAATGGTAT GAATCCCCCTT TATATAAAGT AGATAAATAT | 6840 |
| TTTCCATCAA TTAAACTATG CAGTAGTTGC CACATTAAAA ATGACTCTAA AATTAAAGTG  | 6900 |
| ATACTAGGTG GACTTACAGT AGTTGTAACA TTTTGTATGA TAGGTATATA AATGCAGGTC  | 6960 |
| TAAACCTTAA TTCTTTATTT TGATAAAAAAT AAACAGAAAT ATTTAACAGC TTTGCAGACA | 7020 |
| ACAAAGGAAG AAAGCTGCGC TATTTTTAGA AACTTAATTT TTCTTAAGTT GAATAGAACC  | 7080 |
| TAAATTTTTA TTTTtagCTA AAGCAGGCAA TAGCTAAAAA TAAAAAACT ATTTATCTCT   | 7140 |
| GTGCCCATT TAATTTCTTT GCCCTTATAG TGTAGAAAGC TTTTACCAGC TTGTTCTTTT   | 7200 |
| TTCTATTTTT TATCTAAGTT TTGATAATTA AATATTAGCG CAATTTATAG ATTTTATTTT  | 7260 |
| TGGAGATTAA TTTGTTTTCA AAGCATCATT TGAATTACTT TGCTGTGCTA AGCAGATTTT  | 7320 |
| AATGTAGGTT TCATTTGCTT CTTCCTTATA AAAAACTTT TTCTATGATT GGGTTTTGTT   | 7380 |
| TTAGAGCTTT ATCTGAAAAAT GAAAAACATT TTTTAATGTT GCTATTTAGC GCTGGAACAA | 7440 |
| TTTTTTAGTA AATAGGAATT AATCAGCTCT GTTCCGAGTT TACTGAGTTT TTAAATATTA  | 7500 |
| AAGTATTTTT TACAAAAATG ATTTTAGGAA AGTCTATTTG TAAGTGCTCG TAGAATATAT  | 7560 |

941

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| TCCGATAAAT | ATTTGAGTAA | AGAATCTCGA | AAATATAACC | GAAGCAAGGA | GCCATTTCTT  | 7620 |
| TAATTTTTGA | TTTCTAAATG | GTATTAATGT | TTTTTATTTT | CATTGATAAG | CTTAAGAAGA  | 7680 |
| GGGTATTAAT | ACTAACATGC | TCTTCCTAGG | TAAATTGATT | TTTAATAACT | TTTTTTAAAC  | 7740 |
| GACAGCTGTA | ATCCGTTTAT | TCTAATGTCA | AAATTGGATT | TAAAACCTAC | AAGCCCAATG  | 7800 |
| CCGAGTCTTT | TTTTAAGTTT | TCATTGTATC | TGTTTGCAAA | TTTAAAGGGA | ATAATAATTC  | 7860 |
| TAGTTGTGTA | GGATGCTGTA | ATCGTGAGTT | CTCCTTCCTA | TTCTAATGA  | TTCTATTCCG  | 7920 |
| ATTGCTTCTG | TTGGTGTTTT | TGACGGGATG | CTTCTGATAA | TGTATCCAAG | TTATCTCAAG  | 7980 |
| TATATTTCCC | CGAGTACCTG | AGATCTAAGC | AATTCACCGT | GCTGCCAATA | TAATCCTCTT  | 8040 |
| GGCCAAAAAA | AAGATCCTAT | TCCTAAAGTC | AAAGAGACAT | TTAAAAAGTT | ATAGTAATAA  | 8100 |
| TACGGGTGCT | TTTTCGCTTT | CATATTTTCA | TACGGGTGCA | ATATACTCAA | CACCTTTTTT  | 8160 |
| AACTCTAACT | TATTATCTTG | TGTTGCAAAG | ATTTGCATTG | TTAAACTAAA | AATTAATAAT  | 8220 |
| AATATGAAAA | TTTTTTCATA | TTATTATTAC | TCCCCTAATA | ATAAAGTTTT | GATAATTAAA  | 8280 |
| TATTAGTGCA | AGTTATTAGA | TTTTGAGCTT | GTAGATTAGT | TTTTCTCTAA | AATATTATTT  | 8340 |
| GAATTGCTTT | GCTGTGCTAA | GCAGATTTTA | ATTTAGGTTT | TATTAATTTT | CCAGTGAAC   | 8400 |
| ACTATTTCTA | TAATCTTTGA | TTATAGAAAT | AGTAGTTCAC | TATTAAGCCT | ATCCTTTTTA  | 8460 |
| TAAAGGATAG | GCTTTTACAT | GATATCAATT | TCAATAACAT | AACTTTAAAG | GTTGCTTATT  | 8520 |
| GATAATATGT | TATTTTTCAG | CTCTGTTGTT | TGGAAGCTTT | TTTTTACAAT | TTGCTTGTA   | 8580 |
| AGTTCGGTTA | AATGAGATTC | AAGCTTAGCA | ATATCTGTTT | TTGTAGAATT | TATATAATCT  | 8640 |
| TTATAATCTA | ATAAAAGCTG | TTCTAACATT | TTTGAGATAT | CTGTTTTTAT | AGATAATAAT  | 8700 |
| TTTTCAAACG | AATTTTAAAG | CTTTTTTAAA | TCTGAAACGG | TCAGTGTATC | TAGAGTCTCT  | 8760 |
| TTTTTAAGAC | ATAATAAGTG | ATTAATCACT | GTGTCAAAG  | TGCTTCCGAA | GTTGCAAAAG  | 8820 |
| GTGCCAAATA | GGAGGGTTTT | TTGTTTTGAT | CGAATTAAAA | TCTTCGAAAG | ATTTCGCTAAT | 8880 |
| TTATTGGTAT | TAATAGAATT | TAAAG      |            |            |             | 8905 |

(2) INFORMATION FOR SEQ ID NO: 17:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8318 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

|            |    |          |           |            |            |            |    |
|------------|----|----------|-----------|------------|------------|------------|----|
| CTCTACCTAG | GA | CTTTAATT | AAAAAATTG | GATTGTnATT | CCCAATGCTT | TTTCTATCTT | 60 |
|------------|----|----------|-----------|------------|------------|------------|----|

|            |            |             |             |            |            |      |
|------------|------------|-------------|-------------|------------|------------|------|
| GnAAAGAACT | TTAAAAGTGC | TTTCAAGATA  | GTTTCTTTTT  | GCACGTTACT | TGAATTTACA | 120  |
| TTCAAATAAT | AGGGCAAGTT | GCTTTAATA   | TACTCTTTAT  | TTTTTTTGAT | TTTTGTATTT | 180  |
| AAGTGTTGAT | ATTATTAGTA | ATATTTTAAA  | CTTTACTCTT  | AACTAAAAGC | TTGTTTTATT | 240  |
| GTAAAAATA  | AAACACAAAC | AATACCCTAT  | AAATAGTTTA  | ATATTGCAAT | ATTATTTAAA | 300  |
| CTATAAAAAT | ATGTAAATAA | TAATTTATAA  | ATTAATAAAA  | AACATATAAG | GGAGCTTTCT | 360  |
| TAATGAAAAT | CAAAAATATA | GCAAACATAT  | TAATATTTTT  | TTTATCTATA | GTTTTAAATA | 420  |
| GCTGGGGAAA | TGAGTCAAAA | ATAAATACCC  | CAAATGAAAA  | TTCTCAAAGT | AATATTTTAA | 480  |
| TAATCTCAGC | TACAAAAGCA | GAAATAGAAG  | AGATAAACAA  | GATTATTCAA | AACAAAAAAT | 540  |
| ATATTTCAAT | AGAAGAGCAT | AGAAGAAAAA  | AAAAGATTGC  | CATTGGGAAA | TTAATGGATC | 600  |
| ATAATATAAT | TACCATAGCT | ACAGGAGTTG  | GAAAAATAAA  | TACGGCCCTT | TGGACAAGCT | 660  |
| ATATTATATC | AAAATATAAA | ATTAGTCACA  | TAATCAATGC  | TGGAGTTGCT | AGTGGAATTT | 720  |
| ATAGTGATAA | AAATAAATTT | ATAAAAAATAG | GAGACGTTGT  | AATATCTACA | GAAACAACAA | 780  |
| GTTATGATTT | TGATCTGCAT | AGATTTGGAT  | ATGAAATTGG  | ACATGTTCCA | GAACACCCTA | 840  |
| AAAAATTTAA | AGCAAACACT | GCTCTTATAA  | GGAAACTTC   | TAAAATAAAA | ATAACAATA  | 900  |
| TAACCTCATA | TATGGGCTTA | ATAATTACTG  | GAGACCAATT  | CATTGATCAT | CAAACCTTTC | 960  |
| AAGAAATTCC | AGAAGAATTT | GAAAACGCAA  | TCGCAATAGA  | CATGGAAAGC | GCCGCAATGG | 1020 |
| CTCAAGTAGC | ATACGGCTTT | AAAATTCCCT  | TTATAATCAT  | CCGGGGAATA | TCTGATATAG | 1080 |
| TCAATAATGA | GAATAATTAC | GATGATTATA  | AAAAATTTTT  | AAAAAAGCT  | TCTTCTAGCT | 1140 |
| CAGCAAAAAT | AGTAGAAAAC | TTAATTAAGT  | TAATGTAACT  | TAATTAAGTT | TTTAATTAGA | 1200 |
| TTTTGTATTT | TTTTTATTTT | TTCATAATCT  | TCTTTAAGTT  | TGATTATAGC | GCCTTTTAGT | 1260 |
| AGCTGCACTC | ATCTCTTAAA | CTTTTATTCC  | AGAACTATAA  | AATTACCGTC | TCCTTTGCTT | 1320 |
| ATAATAATTA | TTAGAGCTCC | TTATTAAAAT  | CAATATTCTT  | CAATGAATAC | TATTTTATAA | 1380 |
| TAAGATCTTC | TCTACGCTGT | GCTTGATTAT  | ATCTTTTTTT  | GATTATAATC | CCTCAGCAAG | 1440 |
| TAATATCTTT | ATTAAAATAA | CTACCCCCAA  | ATGCTTAAAA  | GCCAAATTAT | TAATCCCATT | 1500 |
| GATACAAAAA | GCTCAATTTA | ATAATTTATT  | TTCTTTTTTAT | AAAAACATTA | AATACTCAAG | 1560 |
| ATCTCTTAAC | ATTGGCAAGT | GAAGCCAAAA  | TCGATGCTGA  | AAAATCTAAT | AAAGAGGTTA | 1620 |
| ATTCTCAAAA | GAAAAGCAAA | AACAATAGTA  | AAAATATAGA  | AGTAAAAGAT | ACTCTTGGGC | 1680 |
| TAGTTAAAGC | AATTAAAAAG | TCATTATAAA  | AGATTGATTT  | GGCTTTTAAA | GCATTAATTG | 1740 |
| GGTCGGGCTA | TGACGCCTCA | TCAACAGCTA  | AAAGTAAATT  | TAGAAAATGG | CTTAAAGATG | 1800 |

|             |             |             |             |            |             |      |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| ATAAATTTGC  | TAGATGAATT  | GTAAAAATA   | GCAGCAATTG  | ATGGAAATGA | CAATAACATT  | 1860 |
| AGCAAATACA  | ATGACCTTAA  | AAAGGTAGTA  | GATAATTTCA  | ATAATCAAAA | TTCATTAATA  | 1920 |
| AAGGTATATT  | TAAAAAATTC  | AAGCAATGAA  | GATAAAATTG  | AAGCTAAAAA | ATGCATAAAA  | 1980 |
| ACACTTATGC  | ACAATGTTGA  | AACATATTTT  | GAAAGCGTAT  | GTGATGAGCT | TAAAGATAAA  | 2040 |
| AATAAAAAATG | AGCATAACAG  | TATATTAACA  | ACTCTAAATG  | AGGCAATTGG | TAAAATAAAA  | 2100 |
| AATTCAGCAA  | TAGCCATACA  | TGTTTGTTTT  | AATATAGATT  | AATTTTAAAT | GCTTTTTATA  | 2160 |
| TCTAAAATTT  | TTTCTTAATT  | GAGTTAAAGT  | GCACAATTAA  | GAAAAAATAA | AAATAAATCT  | 2220 |
| TTAAGTTATT  | GCATAAAGGA  | TTAATTTACT  | ATGTCTTGTC  | AGCAGTTCCT | TTATAAGCAA  | 2280 |
| CATTCCAGCA  | AGATATCAAT  | ATAAAAAACAC | CCAATATGAA  | AATATGCTAT | TTAGAAAGAG  | 2340 |
| GAAGAAGAAA  | AAGTAAAAAA  | GATAAAATAT  | TTTAAACCAC  | TTTCCATTAT | GCTAAACTTC  | 2400 |
| AATTAATCCA  | CATGGCTTAA  | TGATTCACTT  | TAAATGGCGG  | CTTTGAATTT | CAAAAAAGCA  | 2460 |
| CGCTGCCTTT  | GACATTATAT  | ATTAATTTAA  | TTTTTTGGAT  | TTTAGGAAAA | ACATAATTTA  | 2520 |
| CCGTGCTATA  | TCCCTGTAAT  | TTTGACAAAA  | TCGTTAAAAAT | ACTGTAAAAG | TATTTGTACT  | 2580 |
| ATTTATATTT  | TAGACAATAA  | AGCCTCCCTA  | TAAAGAACCC  | ATATTTTCAA | TCCAAATTGG  | 2640 |
| AAGGCCTAAA  | ACATACAATC  | ATAATCATTA  | CTAGATTTAT  | TATTTCTAAA | AAAGATCACC  | 2700 |
| ATATTTTTAA  | TTATATCAAC  | TATTGAAAAA  | AGGTTTTAGA  | ATAAAAGGGT | AAAATTAATA  | 2760 |
| TTAATAATCC  | ACCAGTAAAC  | ATTTGCAATA  | ATAGCATTAC  | AAGTTTAAAA | TTAAACATA   | 2820 |
| TATGTTGAGT  | AAAAATCCAA  | AAATCAGATC  | TGTTTATAGA  | ATATTTATAA | CCAGTTATTG  | 2880 |
| CTACGAGTCA  | CAAATTTCAA  | AAAATAAAAG  | AATCAAACCTG | CTATAATAAT | TTTAAACAGT  | 2940 |
| GAGGAAGAGT  | TAATATGATT  | AAATTCCCTA  | AAAACCATAT  | ATCAAAAATA | CATATCATAA  | 3000 |
| AAGAATATGA  | GGATGTTACT  | ATTAAGTGGG  | ATAGAGAATA  | CTCATTATTT | AGAAAACCTAC | 3060 |
| ATGGTAAAAA  | TAAAACACTT  | GAAGATTGGT  | TAGAATATAC  | CCAAAAAGAA | GAAAATCAAA  | 3120 |
| AAATTAAAGA  | ATTTGCAAAT  | AAATTTATCA  | AAAAAAGAAA  | ACCGAAAATA | TAAAAATCGC  | 3180 |
| AAAGAAGAAT  | TACAAAGCAT  | AAATAAAAGT  | TATATAAATC  | GGTTACAAAA | ACATTGCATT  | 3240 |
| GACATTTAAG  | ATTTTGCAAA  | AGAGTTCTCT  | CGGGATATTT  | TAAAATGGAA | AAAATTA AAC | 3300 |
| ACTTTGAGTA  | TAAATGAGCC  | TATAAAAAGA  | TTATAAAAATA | GAGAATTTGA | AAAAATAGTA  | 3360 |
| AAATTTTGTT  | TTACTTTTACA | ATAGTAATTA  | AAAATTTGAA  | ATTATAAAGT | AAAAAATGAA  | 3420 |
| TTTTTCAAAC  | AAAAGGTGTT  | TATATATAAA  | AAACCTTACA  | AAAGAAAATA | TCTAATTTGG  | 3480 |
| CATAAAGGTT  | TAAAAAGATA  | TTTAAAAAAT  | AAAGAATTTT  | TTATAAGGGA | ATAATTTGAA  | 3540 |
| CAATAAAATG  | GTAAATATTC  | TGACAATAAT  | AAGGGATAAT  | ATATCATACC | GTATGTCAGC  | 3600 |



|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| ATTTATTATT  | AAAAAAGACT | TTAAATTAAA | ATGAATCGGG | CCAGGACATT | AAAATTAAAA | 3660 |
| ATAAGAATAT  | TTTAATATTA | ACCCAAGATA | AAAGAAGATT | GATTTCTGAC | AGATATAAAA | 3720 |
| GGAAATCCCC  | TTCTAAAGAA | AAATTATTTT | ATCTAAAAAA | GATCAAATAA | GAATAAAAAT | 3780 |
| TAAAAAATA   | ATAGGTGGGC | ATCTAAAATT | TGATTAATGT | TTATAAGTAT | AAAAACAAA  | 3840 |
| ATAATGTAAA  | TTTAATCCTA | TCAACACAAG | ATGAGGATAT | TATTTTTTAT | ACAAATTATA | 3900 |
| CTTGTTAACA  | ATAAAATACA | TTATTATGTT | GTATGATTTC | TAATATAATA | ATAGGCTTAA | 3960 |
| TCTAAGCCAA  | TTAAGGAGAA | TATTTATGAA | AAACAAAATA | ATTTTATGTA | TGTGTGTTTT | 4020 |
| TTTCGCTTTTA | AATAGCTGTA | ATTTGACAA  | TGATGCTGAA | GCAGCAACAA | AAAAACATGC | 4080 |
| TGATAAAATA  | AAAACTAAT  | ATATTAATGA | AATAAAAAAT | TTAATAGCGA | TAGATAAAGA | 4140 |
| AAGTATAGAC  | AAAAACGAAC | TACTGCGGGC | TAAACCGGAA | AATCAAAAGC | CTGCAAACAA | 4200 |
| CAAAAATGAA  | GAGAAGGCTT | TCAAGATAGA | TAGCAGAGCT | TTCAACTTTA | TAAATAGTTT | 4260 |
| TTTAACAGAT  | GATGAATTCA | ACGAATTTGA | AAAAATATTT | CACAAACCAA | AGCTACAATC | 4320 |
| GCACGGCAAG  | ATATTAAACA | GCATAGCAAT | TTTAGAGCTT | AACCTAGAGA | AAACAATTAA | 4380 |
| TCACTTAGAC  | TTAAAAAAG  | ATGCCTTAAA | TAAGGCAAAT | ACCCTAGATT | TGGAAAAGAT | 4440 |
| CAAAAATTCT  | CTTAAACAAT | TATTCTCTAT | AAGGAAATTT | TTTCAACAA  | GCATAAAACA | 4500 |
| GATTTTGTTA  | GATTATCAAA | AAAATACAAA | TTCTATAAAA | ACAGAGGACT | CTAAATTAGA | 4560 |
| AGAATACCTG  | GACACAATAT | TAAATCAGTT | TAATGAAAAA | AATAAAGAGG | TTGGAAATCT | 4620 |
| GAAGAACACC  | ATATTATCAA | TACCTATCCC | AACATTATGA | ATTAAGACTT | ATTAATAAGG | 4680 |
| ATTTTTAAAG  | CAAATTAGGC | CTTTAAATAT | AAAGGCCTAA | TAAAAAAGTT | CATTATTTCC | 4740 |
| TATTAATATT  | GCCTTAATAA | AACGCATTGG | GATTTAAATA | ATTATAAAAA | AGCAACCTTA | 4800 |
| TTCACTTCAT  | AAATAAAACA | TACTATCTCC | CTAATAACAA | ATTTGGGAAA | AATCAATCAA | 4860 |
| GAATATATAA  | AAATAGATCT | TAAAAAAGTT | TAAGCTACAA | TAAATTTATT | TAATTTAATT | 4920 |
| AAATACTATG  | TATTTAATTA | AATTAAATAT | TTGCTTATAA | TAAATATAAA | TAAATAAATA | 4980 |
| AATATGAAAC  | TATGTAAAGG | AGGGTATTTA | TGAAATACCA | CATAATTACA | ACTATATTTG | 5040 |
| TTTTTCTGTT  | TTTAGCTTGC | AGGCCGGATT | TTAATATCGA | TCAAAAAGAC | ATTAAATACC | 5100 |
| CGCCTACTGA  | AAAATCAAGG | CCCAAACTG  | AAAGCTCTAA | GCAAAAAGAA | TCAAAGCCTA | 5160 |
| AAACAGAAGA  | AGAGCTTAAG | AAAAACAAC  | AAGAAGAAGA | GCTTAAGAAA | AAACAACAAG | 5220 |
| AAGAAGAGCT  | TAAGAAAAAA | CAACAAGAAG | AAGAGCTTAA | GAAAAACAA  | CAAGAAGAAG | 5280 |
| AGAAGGAAGA  | ACTAAGAAAA | CAACAATAA  | AAAATACGCT | ATCTAATGAT | TTAAAAAAGC | 5340 |

|             |            |            |             |            |            |      |
|-------------|------------|------------|-------------|------------|------------|------|
| AAATAGAATC  | GGCCTACAAT | TTTAAAGAAA | AATATGTAA   | AAGTATGGAA | AAAGAACCTG | 5400 |
| AAGACCATTA  | CGGGATGACG | TCTTTTAGGG | GATTGAATTG  | GGGGCCAGGG | ACTGAAGATA | 5460 |
| TATCTGACAA  | TACCGAAAGA | TCTATAAGAT | ATAGAAGACA  | CACTTATACT | GTTTTAAGCC | 5520 |
| CCCTGGATCC  | TCATGAATTA | AAGGAATTCG | CAAATATTAT  | TCAAGATATA | AATAAACTAG | 5580 |
| CATCAGTAGC  | AAGTATATTT | AATTCCTTTA | GCGCTATTGG  | AGGAGCTCTT | GACATAGTAA | 5640 |
| GTGATCACCT  | ATATTTCAAA | AAAGACAATC | TAGACAAACT  | AGATATTGCA | GATTTAGAAA | 5700 |
| TACTTAAAAA  | TTCATTTGAA | CAAATATTAT | ATATAAAAGG  | AAGTGTGCA  | GGAAAAGCAA | 5760 |
| AAAAACTTTT  | ATTAGATTAT | AAAAATCTAA | AAACAGATAT  | TAATAAGCTT | AAATCTTATT | 5820 |
| CAAATGAACT  | GGTTAATGGA | ATTAAGCAAC | AAGCTCTAGA  | AGCAGAAAAT | CTAGAAGAGC | 5880 |
| TTATAGTGTC  | AAAATATAAA | CTTTAATGTT | TCGCTTTTAA  | AATTTATTAA | CAATTTAAAA | 5940 |
| ATGTATATTT  | AAGCTTTTGT | GAAAAAATAT | TTTATCTATT  | TGGGTAGGTA | TTACTATTAA | 6000 |
| TATGGTTTTT  | GGCTTAGAAA | TTCTTATATT | ATTTCCCCTG  | AAAAAGTTTT | AGATATCATA | 6060 |
| AAAAACATAT  | TCAACCCCTT | TACAAATTAA | TTTATATAAA  | CCTATATCTA | TCTAAAGTTT | 6120 |
| ATATAAATTA  | TAGGTTAACA | ATTCTTTTGC | TTTTTAGTTA  | AAAGCACTTA | AAATATAGAA | 6180 |
| TTATTTCCCTC | AAAGTAAACT | ACTTTTTCTA | TAAGTCTCTA  | ATTTGTTAAT | TTGCTCTTTG | 6240 |
| TATATACTCT  | CTTCTGCTGC | ACTCTTATAT | CTCTTTTGGT  | CATATGGTAG | CGTTTCTAGA | 6300 |
| CAATCGAGTG  | TTTCTTGAC  | GTAATTGATT | GCCAAAGGTC  | TTAATACCC  | AATAGACAGT | 6360 |
| CTTTCGGAAT  | ACTCACCTCA | GCTAATCTAT | TTATCGACAC  | AAATATTTAC | ATTCTTGCTT | 6420 |
| TTAAAAATAT  | TGTTAATAGC | TTACATTAAG | TTGCTAGTTA  | AAATACTGTA | TTTTTGGAAT | 6480 |
| CTTGGTCAAA  | ATCAACAAC  | ATTCCCTTAT | TTTTTACTTT  | TTTCAAGCA  | ATGTGATACA | 6540 |
| ACTACTCTCA  | AATTATCTCT | TTGTGCTCAG | CCGAAAACTC  | CGCGCTTTAT | ATGTACCCCC | 6600 |
| CAATTAACCT  | TTTGACCTAT | TTTTTAAGAG | CTCGACAGCC  | ACTTTGTAAT | ATTACATAAC | 6660 |
| CAATATCGTC  | CATTCCTATA | TATATAATTT | TGATTTTAAT  | GTTGATCGTC | CAACAAACTA | 6720 |
| ATAATACAAT  | GCACTTGTTG | ATTACTTTAC | TTTTAATAAA  | AAAATATGCT | TAAGTATATA | 6780 |
| GACAATTTGT  | TTATTAGGAA | TTTTTGATTA | TCATTCAATT  | TATAATTTTT | GTTAGAATAT | 6840 |
| AATTTTTTAAA | GCATTATTTT | TAAATATAAT | TATTTTCTTA  | ATTGAGCTTA | AATTTATTTT | 6900 |
| TTATAAAAGT  | TTTTATTAAT | TTTTAGTTTA | ATCATAGTTT  | ACAATTCCCG | CTTAGTTGAT | 6960 |
| ATAAAAATAG  | CATAACATTG | TATAAATATA | TTTTTATGCA  | TGTTGGACAA | ATGCCTAAAA | 7020 |
| AACAAAATTA  | ATTATGTATT | TATAATAAGT | TGTTTTTTGTA | AAAmACAAAA | CCTCAAAATT | 7080 |
| CAAAAACCAC  | TATAATTTAA | AATATGCATT | CGAGAACTCA  | AATGTAATCA | AGTTTACTAA | 7140 |

|  |      |
|--|------|
| AGAAAATATA AAAAGCTCTA AAGAGCACAA AAAAGCTGCT CTATTGGTTA AATAAAAAAT  | 7200 |
| ACGCAATTAA AATGTTTGAC GCAAACAAAG CTGTTGAAGT GTATTCAATA GCACAACTCG  | 7260 |
| AGAAAAAATA AATCACGTCA AAAAATTAAA AATAACTTAG ACCATTAAAA AAAGACATAA  | 7320 |
| ACACTTTATA ATTTTTTAAT TATATAATTA TATTAAATAA CATATCTTTA AAGGATATAT  | 7380 |
| AACACCCCCC CCGATCTTTT TTCAATCCTT GCTAATATGT TTCTTTTCTT TTAATAGTGT  | 7440 |
| CTTTTCTTTG ATATTTATTA ACACATATTT GCTAACTAAA TAAAAGATTC TTAACTTTCA  | 7500 |
| TAATCATTAT TAATAGATAT TAAATATCAT GTCCAATATT ATATTAAGAC ATGCAACTAA  | 7560 |
| CATCTACATT TTTATATAAG CAACTCTACG GCCAAATAGT TAATACAATA TATCAATAAT  | 7620 |
| GTTGTCAAAT TAAATTCCCA TTCAATTAAA ATTCAAATAT TTATACCTAT ATCCTTTAAA  | 7680 |
| ATTTTTGACA ACGCTATTTA ATTTTTTTTAT AAAGTTATAT AAGCTTTTAA AGCTTTAATT | 7740 |
| CCCTCTTATT GAATTTTCCA GATCTAAATT CAGATTATTA TTAACAACCA AATTGCTCTA  | 7800 |
| ATGTTTTTAT TCTTTAATTT AGTACATATG TAAAAAGTAT TAAAAACTAT TTTTATTGTC  | 7860 |
| TCTTAAACAA AAAATTTTGT TAAAAGCTCA GGGCTTATAT AAGTTCTCTG GCCAAAGAAC  | 7920 |
| CTATATAAGC CCTGTTTGCC TCTCATAAAA TGATCAAAAA TAAATAGGTA GTTAATATGA  | 7980 |
| AAATATTTTT CTACACTAAT TGTAGTATAG ATCAAATTAG AATTAAAATC AACTTGTCTT  | 8040 |
| CAGGCTAAAT TGCAATCTTC CCAATTATAA ACATTGCAAT AAATTATTAA TTTTATGAT   | 8100 |
| TTTTTTTATA AAGTATTTGC TTTTATTTAA ATACTGTGCT ATAAATGTAT TTATAAAAAAT | 8160 |
| CAAAATAACT AGGAGTATTA ATATGCAAAA TGCATTTCCA ACCGCAAAAA CACACCTTGc  | 8220 |
| CAGAATAAAT TACAACACAA ATTAATAGTT TTTATCTCTA CGCTAAAGTA TATAAACAGT  | 8280 |
| AAATATAAAA GATATACCCA AAGTAATATA CTTTATTA                          | 8318 |

## (2) INFORMATION FOR SEQ ID NO: 18:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

|   |     |
|---|-----|
| nTTCGCTTTA AATTTAGTTT AAAAnAATAA TAGCTATATT TTCAAATTAT AAATAGTAAT | 60  |
| CTATTTTATA GCGCTCGACT AGCTGGCAGG ATGACTAAAA AATTAATATT TTTTAAAAAA | 120 |
| GAGTGTAATC TCATTTATTT TGCCATATCC TCTTTAACAG ATATTTATCA AGAAACCAAA | 180 |

|             |            |            |             |             |             |      |
|-------------|------------|------------|-------------|-------------|-------------|------|
| AATACTTGCC  | TTATAGTCTT | GCGCAGGAAA | TTTCAGGACA  | TTTAGATATT  | TTAACCATCA  | 240  |
| TGATTTATCC  | TTATATATTA | CCCAATATTA | AAAAGAAGTT  | CTCATTAAAA  | AGAATAGGAT  | 300  |
| TTTGTATTAA  | TAAGAGTATT | AAAAATTAGT | TTACTAGAGG  | ATAAAAACAC  | TGTAAATGAA  | 360  |
| ATACTTCATA  | CTAAGCTTAT | ATTCTGTACA | AGAATGTAAT  | ATTGTGTATC  | ATAAAAATAA  | 420  |
| AAAATATAAT  | CCTAAAAAGG | AGCGATGGAA | ATATTTATTT  | CTTTGTTTTA  | TGAGGTCAAA  | 480  |
| AATATATAAA  | AAAGACTTTT | TACTGAATTA | GAGCGATTAA  | ATTTATTTGA  | TTTTTCAGCA  | 540  |
| ATCCAAAAAA  | AATTGAAAAT | TGGTTTAAGA | TTTAAATAGA  | GATTTTAGTA  | ATTTAAAAATA | 600  |
| AACAAATATA  | CTAAAAAGAA | ATATAAGAAA | AGTAGATAGC  | AATGGATGTT  | TGGCAAGGGC  | 660  |
| AAAAATTTAT  | TTGCATATTT | CATTTAAATA | TGTTTTATTA  | AAACCAATTT  | TAGTTTTAAT  | 720  |
| AAAACCAAGA  | AAATTATCAC | CTATGTTTTT | GTTTATTTTA  | AAAAAGAAAC  | AAAAAGCTTG  | 780  |
| TCTGTATATT  | TTTTAATGTA | AAAGATTTAG | TTCTTTAAT   | ATTAAAGAA   | TTTCTAGAGA  | 840  |
| ACTTTTTAAG  | ATATTCAAAA | TCTTTAGATC | TTAATTTTTT  | TAAATTAATA  | ATTTAAAAAG  | 900  |
| GCTCTTTGTT  | TCGCATATTA | GTTTTGTCTA | AATCAGTATA  | GAATCTATAT  | TTTATACCAT  | 960  |
| TTGTTAATAT  | GCCGAATTTA | ATTTTATATT | TAGAATGAAG  | ATTGTAAAAA  | TAATTTAATA  | 1020 |
| ATTAATTAAA  | ATGCTTTTCA | AGATTTGCCT | TGCAATATAT  | TGGCGTCTAA  | TAAAATAGTG  | 1080 |
| TGTTTTTTTAT | CTTTAGAATA | AAGAACATAT | TCAACTTTTT  | TCATTTTTTAA | TAATTCCAAT  | 1140 |
| TACAACTTCA  | GTCTGGATAA | ATAAAGGATC | GGTGTGACAA  | TAGTGCCTTG  | CATCTAAAAA  | 1200 |
| TGGATTAATA  | AAAATTGTTT | TGTTTAGTCT | TAATTTTTTAA | CAATGAGTTT  | GTATTTTCTC  | 1260 |
| ACTCACATCT  | TTATTTTTTT | ATAAAATTCA | TATTTAAAGC  | TTATTTTTTG  | CTTGACATGC  | 1320 |
| ATAAATTTTA  | TTATTAATAA | ATTTGAATAA | ATAATTGATT  | TTTTAGTTTC  | TTCTTTATAA  | 1380 |
| GAAAAATTAA  | TATTTATTAA | TCAGTAACTT | TTATTGAATT  | TTAAAAATTA  | AAAACATTTG  | 1440 |
| CTTATAAATA  | TTCTCTTTAA | AGTTTAAATA | AAGTTTAAAT  | GTTGAATTAT  | TTAAATATGA  | 1500 |
| TAGACCGTTT  | GTTTTTTTAA | AGTATGGTTG | TTTTTGTATT  | GGGTAAAGAT  | CAAATTTCAA  | 1560 |
| AAATGAGTGT  | ACAGTATTGA | ATTTATTTTT | TTTATTATTT  | TTTCAAAAAA  | ATTAGAATTT  | 1620 |
| ATTAAGTACT  | GAATAAAGT  | TTGAATGGGG | TAATTATGAG  | AGAAATTAGT  | TGTTGTTTTT  | 1680 |
| TATTATTAAC  | TTTTAGTGTT | GTTTGTGTAT | ATTCATTGTA  | TGTTTCAAGT  | AGAAAATTTT  | 1740 |
| ATGGCATATT  | GGAAGGTTAT | TATTCGGGCA | AAATTGAGGA  | ATTGTCAAAA  | AAAAATGATG  | 1800 |
| AAGATGTCTA  | TATATATAGG | TTTGGTAAAT | TTAAAGAAAC  | ATTGAGCGAA  | ATGAGCTCCG  | 1860 |
| GCATCAAGTC  | ATATTTTTTT | AATCTTGTTG | ATTACCAAAT  | TGCCAGACTT  | CTTCAGAATA  | 1920 |
| AAGAAGGAAG  | AAGGAATTCT | TCTAAAAGTT | ATTCTGTTTT  | AAAATCCACT  | CAAAAATCTC  | 1980 |

|  |      |
|--|------|
| TTTGTAGAGCT CATTGCATCA ACAGATTTTA AAGGTTTGGA AAAAACCATT CAAAGCGATA | 2040 |
| TTTGCAGGAT CTTGGGAGAT GTTAATTTAA TGCTTTTGAG GTATGCGGGA GGTGCAGCTT  | 2100 |
| TAAGCAAGCT TGCAAATGAG GCTAGAAAAT ATTTTGAAAA GTCCTTAAAA ATTAATAGTA  | 2160 |
| AAAACTCATT TGCCAACACT TCTCTTGCAA GTTGGTATTT ATATGCTCCA AGGATTGCGG  | 2220 |
| GGGGAGATCC AAATAAACT TTGTCATTTG CTCAATTAGG ATTTAAATAT GGTCAAACAG   | 2280 |
| ATGTGGA AAA ATATTTTGCA AATATATGGA TAAGTCAAGC TCATTTCCCTT CTAAAAATG | 2340 |
| AAAAAGAAAG CCTTAAATAT ATACTCAAAG CTGGTGAAAT ATTTCCCAAC GGAGCTTTTC  | 2400 |
| ACAAGATAGT TCTAGAACAA AACAAGGCTG GAAATTTGTT TATGGATTTT CCTATAAAAA  | 2460 |
| ATTAGTTGAA TAAGAAGTTA ATATAACTCA TTTAAGATTT ATGAGTTATG AGATAATTTT  | 2520 |
| TATATGTTAA GGGCATTGTT AATTTTTTTA GTAAATATTA GCCTATTTTC TTTTGAAAAA  | 2580 |
| GAGGTCAAAG TATATATAGA TAAAATAGAA AGCGTTCATA CTAAATATTG TTCTGGTAAT  | 2640 |
| TTTGAGTTTG ATTTTTTTTC ACCCGATAAA ATTTTACAA ATGAGCTTCA AAACATAGAA   | 2700 |
| AATGTTATTT TAATGAAATA TAGAAGGGAA AGTATTCAAT ATAATTACTT AAATTTACTT  | 2760 |
| ATGTCTTTGG TTTTGTGTGA CGTTTCTTAC TTAATTAATG ATCCACATAA ATACAATGAT  | 2820 |
| TTGATTCAAA AACTAATTCG CAATTATAAT TGTGCTTTGA AAATTTCTTT AGAAGATGAT  | 2880 |
| AATGTTCCAG CGGATTATTT TAGGGCATTG GGAGAGCTTG CTATAAATTT AATACCGCAC  | 2940 |
| AATAGGAAAG GATTGTATTC TTATTTTGTT AATGCCAAGA GGCATTTAGA AACAGCTTTA  | 3000 |
| AAAATAGATG GTGATAACGT TAAAGCTTTT ATTCCCCTGT CTATTTTATA TACAGTTAGA  | 3060 |
| GTGTCAAATA GAGATTTTTA TAAGATTCTA TTTGCAAAAA GCTATATTGA TAGAGCAGAA  | 3120 |
| GACAGCAATC TTAATGATAG GCAAAAATAT TTGAAAGAAT TAGTGAAAAG TTCTTTTTTA  | 3180 |
| ATTCGCACTA ATAGAAGATT GGAAGCAATT GAATGTTTAA AAAAAGCCAC AGCCATATTC  | 3240 |
| CCTAATGGGA ATATGGCTGT GTTGGCAATT GAAAAATTAA AAGAGGGCAA TTCTTTCTAC  | 3300 |
| TACTAGAAAA TTATTTAGAA TTTAATTTCA ATGAAGATTG AAGGTATTCA TGAAAAAGTT  | 3360 |
| TTTATTTTTA ATATTGCCCT GTTTTGGGGT GTTTGCAAAT GAGTTAAATG ATGAGCTAGG  | 3420 |
| TGATTTTGTA ATACGCGGAG TGGATTTTGA ATTTCGTCTT GATTATCTTA GTGTTCCAAA  | 3480 |
| TAATTTTGAA AATAATTTTG ATTTTATTTT AAACATTAAG GAAAATGATT CAAAAATCTC  | 3540 |
| ACCTTTTTTT AGATTAGGAA CCGATTATTC TAAATGTTT TTATTTGGCA CTGGGCTTGC   | 3600 |
| TTATGATTTT AGGAAATTTT TTTCTAAGGT ATTTTATGAA ATTAGGGTTC CGTTTATTTT  | 3660 |
| TGATTCTAAA AATATTGAAC ATATTGGTAA TTTTGAGGTT GGTTATAATT TTGATTATTT  | 3720 |

|  |      |
|--|------|
| AAGACTTGAA AATAGATTTA GATCGGGATT GATGAATCAT TTAATCAAGG AAACAGAAGC  | 3780 |
| TAATGTTGGT GGATCATATC ATAATGCTTT AACCGTGGAA AACACGGTTG CCATTTTACT  | 3840 |
| TCCAATTTAT TACTCAGAAT TTCAGCGAGC AGATATTAGA ACGTCTTTCT TATATAAGTA  | 3900 |
| TTTATCAGAT AATAATGAAC AGTTTTATAG AGTACATTGG AATTTAAAAT ATCTTGTTTC  | 3960 |
| TATTCCTTTT GGAGAATTGG GATTTAAGGC CGATCTTGGA GTGGCAGGCG ATTTTAAAAA  | 4020 |
| GTCTTCGTCT TCTATTTTGT AAACCGGATT TGATTATAAT GCTTTAAATT TTTATGCTTT  | 4080 |
| GACTATTCCC AAAATGGGTC AAGACAGTCT TTATTTTAAT GTTGTCTTA ATTTTGGATT   | 4140 |
| AGAGTATAGA TTATTTTCC TTGAATCATT AAAAAATCTT GCTTCTGATT TATTTTGTAGT  | 4200 |
| ATTGTCCGCA GATATTGGAT ATGGGATAAA AGAGGATTTG CTTTGTAGATA AAGGAAAGTT | 4260 |
| TCTTTATATT TTGGGTTTTG GAATGGGTTA TAAATTATTT AAGGAAGTTC CTTTGTGTTT  | 4320 |
| CAAGGTTGGC ATTAATCAGG ATAAAAAATT ATCATTGGA TTTTATTAA GTTCAATAAT    | 4380 |
| TTTTGAGTGA TATTTTTTTG GTAAAGCTTT TTAAATTTTA TGGTTGAATT TGAAATATAG  | 4440 |
| GAGGTTTTGT GGGGAATGTT AATTAGATT TAAATTTGGT TAATAAAAAA TACAAAATTG   | 4500 |
| GACAAGAAAT TATTCATGCA AATAAGGATA TTCACTTAA TTTAAAATCA AGGGACATGG   | 4560 |
| TTTGGATTTC AGGGCCTACG GGGAGCGGCA AGACAACCTT AATGAATTTG CTTTCTGGAA  | 4620 |
| TAGATTCTCT TGATACAGGG GAGATCCGCT TCAACTCAAC TCTTTTAAGT TCAATGAATG  | 4680 |
| AAAAGGATAG AACTTTGTTT AGAAGGTATA ACGTAGGGTT AATCTTTCAG CATTTTGAGC  | 4740 |
| TTATCCCAAG TCTTACAGGT TTTGACAATA TTTCATTACC TCTAAGATTC TCAAGAGAAA  | 4800 |
| GTGCTAAGCG ATTAAAGTCT AAAGCGGAAG AATTGATAGA ATTTTTCAAA CTTTCAAAGT  | 4860 |
| TTGTGAATAA AAAACCTAGA TATATGTCTG GAGGACAAAAG GCAAAGGATA GGAATAGCAA | 4920 |
| GAGCCTTTGT TTATGATCCC AAATTAATAA TTGGAGATGA AATAACTAGT CATTTGGACA  | 4980 |
| AAGAAACAGC TATTTTTGTT TATACTTCAA TACAAAAGTA TCTTAAAGAG AAGAATGCAA  | 5040 |
| TTGGGATTTT TGTTTCTCAT GATTATAATT TAAAAAATTT GGCTAATAAA CTTTATAGAA  | 5100 |
| TAGAAGATGG AGTGCTGTCT TTAGTGGGGG GTGAGTGTGT TTAAATTGGC TTTTACAAT   | 5160 |
| ATCTTTAGAG ATTTAAGGCG TACAATCATA TTATCTTTAC TTCTAGCAAG TTCTGTGGTA  | 5220 |
| TTTTTATTGG TTTTGTGTTG ATATATGAAC TTTAGTAGAG AGGGGATGGA AAAGAGCTTT  | 5280 |
| GTTAGTTCAA GTGGCCATAT TCAAATTGCG AAAGAAAATT ATTTTAATCC TAAATTTAGC  | 5340 |
| AACCTTAAGA ATGGGCTTTT ACTTGAAGAA AAGGATATTA ATTTGATACG GAATGAAATA  | 5400 |
| GATAGTTATG ATGAATTACA ATCTACCAAT TTAATAGTTA ATTTTGATGG ACTTCTAGGC  | 5460 |
| AATCTTCGA CAAGTAACCC AGTTTTTGCA TTTGCCTATG AAGATCCAGA TATAATTACA   | 5520 |

AGCAGCCTAT CTTTATTAGA GGGTGAGCCC ATTTTCCACG ATTCTAATGC AGGTGAGTTT 5580  
TTGCTTGGTA GTAATTTGGC CTCTTCGTTT GGTATAGAAA AAATAACAGA AACCAATTCT 5640  
GATCTTACAT TAATGACAAA TTTGCTCGGG AGAGGTTTGA ATTTCCAAAA TATTAAAGTT 5700  
GCTGGAATTA TAAAATTTCC ATTTTCAACA GCAGATAATA TTTTGTCAAT TACTACTATT 5760  
AAGACTTTAA AAGACTTGTT TGCATTTGAG GGTGGAGCAC ATGTGATCCA AGTATTTTTA 5820  
AAGGATAGTT CTACCTTAGA GACTTTTAAA AAGAAATTAG ATAATTTTAA AAAAAATAAG 5880  
GGGATTTTCAT TTGATTATAA TGACTGGTTT GAGATTAATC CTTACTTTAA ATCTGTTTTA 5940  
GGGATGACTA GAACAACATT TATGTTTATA TTGGTCTTAA TATCTCTTCT TATATTTATT 6000  
GCATTTTTC AGATAATGAC CGCATTAAGC ATTGAGCGCA CTAGAGAGCT TGGTACATTA 6060  
AGAGCAATTG GTTTAACCAA ATTGGAACCT TTTTACTCTC TATTTTTAGA AATTGTTATT 6120  
ATTTCTGTTG TCAATATTGT TGTAGGAGTA ATATTGGCTT ATTTTGCTAA ACTTTTTATT 6180  
CAGTTTCAAA AAATTAGCTT TACTCCTCCA GGCTATTCAG AAACATACTA CATCAACATA 6240  
TTTTATTATG CTAGTGATAT AATATATGTT TCAATTTTCA TGTTAATTCT TGCTATTTTT 6300  
TCTTCTATTT TGCCATTTAG CAAAGCAAGT AAGAAATCGG TAGTAGAGGT AATGAATGAT 6360  
GCTTAAGATT TTTGTAATTG TTTTCAATTT TTGTGTTTTA AATTTGTTAA ATGCTGGAGA 6420  
TGGGAAAAGT TTAATAAAAG AATTTGAAAA TCTATATTAT CCCCAATTAA AAAATGGAAT 6480  
TTATGCTTTC AAAATGAATT TTAAAATTAA CGTAAAAAAT AATTTAGAAG AAAGCGTAGG 6540  
GCTAAGAATT ATTAATGTTG ATAATAAGGA TGTGCGTTTA ATTTATATGT CAGGATCAAA 6600  
AACGGATTTT GCCTTTTTAT CTATTAGGAA TAAAGGGCAT TTTATGCTAG GAAGACAAGC 6660  
CAAGATTCCA ATTAAGGTAA GCTCATCCTA TAAAGTTAAG GGCGCATCTG AGCTTAAAGA 6720  
TATTTTGGGT TTAAGTTTCA ATACAGATTT CGTTTTATTA AAATCCGAAG ACAATAGGGT 6780  
TGAATTTCAA TCAAAAGAAA AATCAATATA TCCATTTGTA GATTTATTAA AAATTAATAA 6840  
AAATGATTTT AAAACTTTAC ACAAAGACAA GAAATTAAAA ATTCTAAAAG AAGTAATTTA 6900  
TAGAAAGGGA AATATTAAAG GAATTGATGC TTTTGTTTAT TTTGAAATTG AAGATAAAGC 6960  
TTTTAACGAT TCTAGTACCA AAATTTATGT GGAAAATATT ATTAGTACTA ATCTGAATAA 7020  
CTCTATTTTT AGCTTAAAAG GATTTAATAG AATATTTGAT TTATATTCAA GGTATATAAA 7080  
TTAAGAGCGT AGAGGGATAG TTAATATTGG TATTTTTTAA AAAATTTTGT TTAATCTTT 7140  
TTTTGGCTTT ACCTGGTTTT TTGTTTGC GG AATCCTCTTT GTTTTTAAAG GAGCATTTAG 7200  
GATTCAAAAC AAAATCTCTT TTATTGTTGC CCGATGAAGA TAAAAAAGAT TTTTTTGGTA 7260

951

|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| CAGGAGCTTT  | ACAATTTGAC | AATGAAGCTT | ATTTAGGATT | TTTATTAAAC | TATAAGATAT | 7320 |
| TAGAATTTGG  | CATTGCACCT | TCTTTTATTG | TGCAAAATAA | TGATCAATAT | TTTAGTTTTA | 7380 |
| ATAAATTATT  | CTTCAATTTA | AGCTTTAATG | ATTTTATTTT | TAAATTAGGT | AGGCAAAATT | 7440 |
| ATTATTTTAGG | AAATGGATTA | ATTGAAAATA | TTGTTTTTAA | AAGGACCACA | ATAGAACCAG | 7500 |
| AATGGTTTTT  | TGAGTTTTAT | TATTTTATTT | CTAATTATTC | TGTCTCTTTG | GGtTCTATGt | 7560 |
| TAGACAAArA  | AAgCTTArAT | AAATTTTCAT | CTCCCAAATA | TTTATCCCCT | TGGCTTTATT | 7620 |
| TTCA        |            |            |            |            |            | 7624 |

(2) INFORMATION FOR SEQ ID NO: 19:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7074 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| ATTGAGGCTT | ACAATAAAAA | TTCTGATAAC | ATTAAAATAG | ATAATAAAGC | GCTAGAAACC  | 60   |
| ACATGGAAAA | AAAATACTCC | CATCCTCTTT | ATCTACTAGA | TCAAGCTGAT | TAATTTAAAC  | 120  |
| AAAAATTAAT | AAGTTACACT | TAATATTTTT | TAAAAGAGAA | GTAAATTCCT | CTCTTTTTTTT | 180  |
| ATTyGTACAA | TCTAAATCCA | CGCTAAAAAC | ATGCAATAGA | AATTAAATTT | TCAATATCAA  | 240  |
| ATAAGTTTAA | TATTACAATT | TGATAwTAWT | ATCAAATTGT | AATATTATAA | ATTGAACTA   | 300  |
| AAATTAATAA | ATATTAATTC | AAATTTATAA | GGAGAATATT | TTGAAAAACT | TTAAATTAAA  | 360  |
| TACTATTAAG | CTTAACGTTA | TTACAGCAAT | ATTAACTTTA | ATTTGCATAT | CATGTGCACC  | 420  |
| TTTTGGCAAT | GTAAATCCAA | ACAAGCTAAA | AAATCCTATC | ACCTCTAAAA | ACCTAAAAAA  | 480  |
| AmCAAAGCGA | AGCAACCATT | CTAGAAATCT | AAAAAAAACA | AACAGTCACA | CCAATTCAGA  | 540  |
| AAATTCAGCA | GAAAATAACC | AAAATCTTGA | AAATGAATCT | CAAAATTCAA | AATCTTCAAA  | 600  |
| TCAAAATCCT | CAAGAAGAAA | CTGCAATCTC | AAAATTAGAA | AAAATTGGTA | AGGACCTGGA  | 660  |
| AGCTCAAAAA | AAGGAAAAAG | ATACACAAAT | AGAAAAAATT | AGTAGTGATG | CTCAATATGA  | 720  |
| TTTTCTAGAG | AATTTTAAAC | TTCACAACTA | TGATTATTTT | ATGCATAATA | CAAAAATGAC  | 780  |
| ATTAAAAAAA | ATAATTTACT | CATCCCTAAA | TTACGAAAAA | GAAAAAATAT | TGACATTAAA  | 840  |
| AGAAATTCTT | GAAAAACTTG | ATACAGAAGA | TAATAACCGA | AGAATAGCTG | GTCAATTTTT  | 900  |
| AGAAACATCA | AGGGATATTC | AACTTCAACA | AGAAGATTTG | ATTTTAAAAA | AAATACAAGA  | 960  |
| TACATTACAA | ACTCTAAGCA | AAGAAAAAGC | TGAAGAATTA | CTACAACACG | CAGAACGCGA  | 1020 |



|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| TTTAAAGATA | AAACAAAAC  | TTGTAAAAGC | TTTAAACGCA  | ACTATTGAGG  | CTTACAATAA | 1080 |
| AAATTCTGAT | AACATTAAAA | CAGATGTTGA | AGCGCTAGCA  | AACCACATGG  | AAAAAAAATA | 1140 |
| CTCCCATCCT | CTTTATCTAC | TAGATCAAGC | TGATTAATTT  | AAACAAAAAT  | TAATAAGTTA | 1200 |
| CACTTAATAT | TTTTTAAAAG | AGAAGTTAAT | TCTTCTCTTT  | TTTTATTTCGT | ACAATCTAAA | 1260 |
| TCCACGCTAA | AAACATGCAA | TAGAAATTAA | ATTTTCAATA  | TCAAATAATT  | TTAATATTAT | 1320 |
| TTTAAGCTTA | ACGTTATTAA | TGAAAATAAT | TATGATGATT  | ATAAAAAAAT  | TATAAGAAAA | 1380 |
| GCTTCTATAA | ATTCTACAAA | AACAGCAGAA | AAATTGATTA  | AATTAATGTG  | ATTATATAAA | 1440 |
| GATCGTACAT | AAATAAGGAC | TAGGGATAGA | CAAAAGAAAA  | ATACTATTAG  | CAGAGGCCAA | 1500 |
| TAACAAAAAA | TATAAAATGT | CAAGCGATTT | AAAAAAAAGA  | AAGAAATGCT  | CAGTTGCAAG | 1560 |
| ATGTATTTCA | TTAATTATTT | TTACCAATTC | TTTTAGTTTT  | GATATAACCA  | GTATTTTATT | 1620 |
| AATCTTATTA | ATAAAATACT | GGTTATTTAA | TTATTTTAAAC | AATATAGTTA  | TAATAAAGAA | 1680 |
| AGATTAAATC | ATATTCAAGG | AGAGTATTTA | TGAAACACTA  | TATAATTGTG  | CATATATTTG | 1740 |
| TTTTTCTATT | TTTAAATGCT | TGTTATCCAG | TTGCATCTAA  | TAAAATAGAA  | TTAAACCTA  | 1800 |
| AAACAGAAAC | AAGCTTAAAT | CAAGAAGAAG | TCCCAAATCA  | AGAAGCAAAC  | TACAAAGAAG | 1860 |
| AAAAAGAAGC | AAAAGAAGAA | GGCATTAATA | AAAAAACAGA  | AAACACGCTG  | CTTAATGATT | 1920 |
| TAAGAAATTT | AATAGAAACA | GCTAAAAAAG | ATAATGATAA  | ATATACACAA  | AAGTTAAAAG | 1980 |
| AAGAATCCTC | AAGCCAATAC | GGAATACTGG | CTTTCAAAGA  | TTTGTCTCTG  | CTAGATGGAA | 2040 |
| CAAATGAACA | ATTGTCCGCA | AATACCGAAA | GATCTAAAGC  | CTATAGAAAA  | CGAGCTTATA | 2100 |
| GCATCTTAAA | TACTATTAAT | GACGCTTCCT | TAAAGAATTT  | TTCAGAAATT  | GTAATGGCAT | 2160 |
| CAGGACAAAC | ACAGGGCATA | TTTAATACCC | TTAACTCACT  | TGGGGGTAAT  | TTTGAAAAGA | 2220 |
| TAGTTAATTG | TTTGTATCCC | AAAAAGACA  | ATTTGGAAAA  | ATTAGAGACT  | TCAGTTTTAA | 2280 |
| AAAAGCTTAA | AGATTCTTTG | GAAAATTTTT | TAGAGATAAA  | AAAAATCGCC  | TCAGAAATGA | 2340 |
| TGCACAAGCT | CTTATTAGAC | TATCAAAATA | ATACAAATCG  | TATACAAACA  | GATAAAAATG | 2400 |
| AACTTAAGTC | TTATGCAGAC | ACACTTTTCA | ATCAAATGAC  | AAAAAAACCC  | GAAGAAGCAC | 2460 |
| TAAAGCTAAA | AAATACCATA | TGCTCAATAG | AGGACCTTTA  | ATTTATATAT  | TGAAATTGTC | 2520 |
| ATAATATAAA | GACCTATCTT | TTCCTAAAAG | ATAGGTCTAA  | AGTTGTTAAA  | TACTATTTCT | 2580 |
| AAAAAAAAGA | TTATAAATAG | CTTCTTTATT | TATTCGCGC   | TAGCTTTTCA  | GCTCTACAAG | 2640 |
| AACGGTCGCC | CATCAGAGAA | TAATCACACA | GGCTTTATTT  | CAGACAATTC  | TTGCCTTAGT | 2700 |
| TTTTATTTCT | TTATAAGAAT | ACGCCTTAGG | ATTTAGAGTT  | GCATTTATAT  | CTCTATCATA | 2760 |

|            |            |            |             |            |            |      |
|------------|------------|------------|-------------|------------|------------|------|
| CAAAGTGATA | CAACCGCTAC | AAATCCACAA | TAGTGTGCGCT | TAATTTTAGA | GTTATATTTT | 2820 |
| TAATATCTCA | TACTCAATAT | ATGTACAGCC | CAATATTAAA  | ATCTTGCGAA | TTTATAAATA | 2880 |
| ATCTAAAAAC | AGTATCTTCA | AGACTTATAA | AAAATATTTT  | ATTTATTTGG | AGAGGTATTA | 2940 |
| ATGAAAACCT | TATCTTTGGT | ATAGAAGTTA | TTGCCTTATC  | TCTAATAGAG | GATCTCTATT | 3000 |
| GATATCATCA | AAAAGTATAT | TTAAAATCAA | AATAAACCTA  | TTTATTAACA | AACTCATCTT | 3060 |
| AACCCAAATT | TCATAGAAAT | TATAGTTTAA | GTATTCTTTG  | GGGGTTTTTG | ATAAATTGCA | 3120 |
| TTAATATTTA | ATTATTAAAA | TTTATTGGGA | GGTAATATCA  | ATATGAAAAA | AATTTTAACA | 3180 |
| TTGATATTAA | TTTTTAGCTT | AACAATACAA | ATCTTTGCAA  | CACAAGATAA | GCTTGAAAAA | 3240 |
| AGTGTTGGAA | GTATTGAAAC | CATTATGAAA | TATAAAAGCG  | AAAAAGCAAC | TATACTAGCA | 3300 |
| CCATTCCTTT | TGAATTTATT | TTTAACTTTA | GGAATAGGAT  | CCTTTGTCCA | AGGAGATTAT | 3360 |
| ATTGGTGGTG | GCGCAGTGCT | TGGATCTCAG | TTATTAGGAG  | GAATACTTTG | CATAGCTGGA | 3420 |
| AATATTCCTG | GCCATACAGA | TGATGAAACA | AGAGCAACAA  | CTGGGCATAT | AATAACAACG | 3480 |
| ATAGGAGTAG | GCACGATTAT | AGCATCCCAC | ATAGCCTCAC  | TTATTATTCC | ATTTACATTT | 3540 |
| GCAAATAAAC | ACAATGCAAA | TCTTAAAAAA | AGACTCGGCA  | TTGATATTGC | GGGTTTTGAA | 3600 |
| CCCAATTTTG | ATATTGGAAT | AAGCGGATTC | CAACTATCGT  | TTAAAAAAG  | ATACTAAATA | 3660 |
| AAATATCAAA | GCTATAAAAA | TTAGTTACAA | AAAAC TACTG | TAGTGATATA | AATAATAAAA | 3720 |
| TTTAATTAAT | GGAAATTTTA | TATAAAATAT | AAACAAAGAC  | TTTATAAATT | TGAAGATTTT | 3780 |
| CTTGAGAAGC | TCATCATAAA | AAGAAGATAA | ACAGTGTTAA  | CGTTTATTAG | TATAAATAAA | 3840 |
| TCAAAATAAT | ATAAATTTAA | TCCTAGCAaT | AAAAaTGGGA  | TCTtGTTTTT | AGATAGGGTT | 3900 |
| TTTAAAAGAC | TTTAAAAAAA | TATTAAAACT | TAGAAAATAT  | TAAAAAGACT | ATAACAATGC | 3960 |
| ACTTTTATTG | TCAAAAATTA | CTTATTTAAT | CTAATAAAAA  | TATCTTATTA | TTCTGTCAAT | 4020 |
| CTTATTGTGT | TGTATGTTCT | CTAATATAAT | AATACAATTA  | ATCTATACTA | ATTGAGGAGA | 4080 |
| ATATTTTTAT | GAAAAACAAC | ATAATTTTAT | GCATGTGTGT  | TTTTTTACTT | TTAAATAGCT | 4140 |
| GCACCGCTAA | CCATGAAGCT | GAAGCGAAAA | TAAAAAACA   | TGTTGATAAA | ACAAAAAACG | 4200 |
| AATATATTAA | TGAAATAAAA | AATTTAATAG | CAACAACCAA  | AGAAATCATC | GAAAAACGAA | 4260 |
| AATTGCTACA | AGCTAAACCA | GTAGATCAAA | ACCCCGTAGA  | TGATACAAAC | AATAAGAAAG | 4320 |
| TTTTCGAGAT | AGATAAAAGA | GCTTTCGATT | TTATAAATAG  | TTTTTTAACA | GATGATGAAT | 4380 |
| TTAATAAATT | TGTAACAATA | TTTCATAAAC | CAACACTAAA  | ATCACCCGGA | AAAGTATTAA | 4440 |
| ATAGCATAGC | AATTCTAGAG | CTAAACATAG | AGCAGGTAAT  | TAATCACCTA | GACTCAAAAA | 4500 |
| ATGAGACCTT | AAATAAAGCA | AGCTCTTTAG | ATTTGGAAAA  | GATCAAAAAT | TCCCTTGAAC | 4560 |

|            |            |            |              |            |            |      |
|------------|------------|------------|--------------|------------|------------|------|
| AGCTGTTCTC | TATAAGGAAT | TTTTTTTCAA | CAATCATAAA   | AAGGGTCTTA | TTAGATCATC | 4620 |
| AAAACAATGA | AAATTCTATA | AAACCAGATG | ATTCTAAATC   | AGGAACCTAT | TTGATACGA  | 4680 |
| TATACGATCA | GTTTAATGAA | AAAAATAAAG | AGGTTAGAAA   | TCTGAAAAAA | ACCATATTAT | 4740 |
| CACTGCCGAA | TTAATATGGG | GGTTTAAGTA | AATTAAACCT   | TTAAATATAA | AAGTCTAATA | 4800 |
| AAAGTTTATT | ATTTACCATT | AATATTGCTT | TAATTAAACG   | TGCAGAAATT | TAATTACACA | 4860 |
| AACAGAAAAA | TAAATTATAA | TTGAAATTAA | TCAATAAATA   | GCAAACAATT | GAACCTTTAA | 4920 |
| GAAGTAAAAA | TTGCAAAAAC | AATTATTTTA | ATATTA AAAAC | AAACATAATA | AGAGATTTAC | 4980 |
| TTATAATAGA | AACTTTTACT | ATTAATTTCA | GAAAGGTTAA   | ATCGACATTA | AGAGATAAAT | 5040 |
| TTAAATAAAT | GATGTTGATC | GGCCCGAAAG | CATTCTGAAA   | ACTGTCAAAA | TTAAATCGA  | 5100 |
| AAATTTAAAT | AACTGGGGG  | GCTTTTAGAA | AAAATGAAAA   | ATGTCTTAAG | AATCTAAAGA | 5160 |
| ACAGTGGGCC | TTGTTTTATT | AAAATAAGCA | AGTATGTCCA   | AATTGTTGAA | CCAGTATTAC | 5220 |
| TAAATTAGTA | TATTAATTTA | TAAAAATTAA | TCAAGGATAT   | ATAAAATAAA | TTTTAAAAAA | 5280 |
| GTTTAAATTG | TAATAAAAAA | TTTAATTTTA | TTAACTAAAT   | AGCTAATATT | TAATCAAATT | 5340 |
| AAATGTTTAA | TTATAATAAG | TATAAATAAA | TATGGAATGA   | TATAAAGGAG | AGTATTAATG | 5400 |
| AAATGCCATA | TAATTGCAAC | TATATTTGTT | TTTCTATTTT   | TAGCTTGCAG | TACAGATTTT | 5460 |
| AATACTGATC | AAAAAGGCAT | TAAATACCCG | CCTACCGAAA   | AATCAAAGCC | CAAACTGAA  | 5520 |
| GACTCTAAGC | AAAAAGAATT | AAAGCCTAAA | ACAGAAAAAG   | AACTAAAGAA | AAAACAACAA | 5580 |
| CTAAAAAATA | AACTACTTAA | TGATTTAAAA | AATTCAATAG   | AAACAGCTAA | TAAGCATAAA | 5640 |
| GAAAAGTATA | AAAAAGAAT  | GAAAGAAGAA | CCCGAAGATC   | AATACGGGGT | ACAGGCTTTC | 5700 |
| AAAGGATCGA | ATTGGGGGCC | GGGGACTGAA | GATGTATCTG   | CCAACACCGA | AAGATCTATA | 5760 |
| AGATTTAGAA | GACATACTTA | TACTATTTTA | AGCACGCTGA   | GTCTTCATGA | ATTAAAGGAA | 5820 |
| TTCTCAAATA | TTGTTACAAA | TGAAAATAAA | CTGGTGCCAG   | TAGTAGATAT | GTTTAATTTT | 5880 |
| TTTAGCTCTA | TTGGGACAGC | TCTTGATATA | ACAACCGATA   | GCTTATATCC | CAAAAAGACA | 5940 |
| ATCTGGACAA | ACCAGATCTG | TCGGATTTAG | AAACGCTTAA   | AAATTCATTT | GAAGCAATAT | 6000 |
| TGTCTGCAAA | AGAAAAAGTC | GCAAGCGGGG | TAATGCAACT   | TGTAAGAGAT | TATAAAAATC | 6060 |
| TAAAAACAGA | TATTAATAAG | CTTAAATCTT | ATTTAAATGA   | CCTTTACAAT | GAATCTGAAG | 6120 |
| AACAAGCTAC | AAAAGCAGAA | AATCTGGAAG | AGTTTATAGT   | GTCAAAATAT | AACTTTAAT  | 6180 |
| GTTTCGCTTT | TAAAATTTAT | TAACAATTTA | AAAATGTATA   | TTTAAGCTTT | TGTGGAAAAA | 6240 |
| TATTTTATCT | ATTTAAGTAG | GGATCACTAT | TGATATTAAT   | TTTGGCTTAG | AAATTCTTGT | 6300 |

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|  |      |
|--|------|
| ATTATTTCTA CTGAAAAAGT TTTTACAGAT ATCATAAAAA GCATATTCAG AATCAAAATA  | 6360 |
| AATCTATTTA ACAAATTTAT CTACACTTAT AATCCCTGTG AAATTTGGAT GAAAAATCAT  | 6420 |
| TTGTTATTTT TTATTAACT TTAGTTTTAA GTGTATTATA AATTTAATAG TCTAAAAATG   | 6480 |
| TGTGAACATT TGATTTTTGC TATTTAAATT GATTTTAATT TTATCTTTTA ATTTTATACT  | 6540 |
| TTTTAGACAC GCTATATATT CTTTTGCCCT CTTTAAATAA AGAATCTTTT ATCATTCTATA | 6600 |
| GAGATAAATG ATAAAAGATA TACTGTTTAA TATTAAGCAA ACTATAATTC GATCTTTAAA  | 6660 |
| AAAGATTTAA CCCAAAATAG ATAAGTTATA AAGCCTTCTA ATATCTTTTA TTTAAAAAAT  | 6720 |
| ATGTTAATAG TATTCTATTT TCTAGCTTCT TCTATTATTT CTAAATTTAT ACACCACAAT  | 6780 |
| AATAGATAAT GTACAAAAAA TCAATATTAA TAAAACAAAT GTATTTATAG CACTTATAAA  | 6840 |
| ATTAGTTAAA ACCGAACATA TAGCTAATGT TAAAAATGAA AATATACGAG ATATTATGCT  | 6900 |
| ATTAATAGAA GTTATAGTCC CTAAACTTTT TGAATCTATA TTTTTTCTTA AAAAATATTC  | 6960 |
| TAAATTATTA GAATAAATAG CAATTAAAAT TACTAAAAAT GTGATTACAG CAATAAATAT  | 7020 |
| GTAAATATGT GAAACTATTT TTATTAGAAC TGACAATAAA GATATTATGG nTAA        | 7074 |

(2) INFORMATION FOR SEQ ID NO: 20:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6810 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

|  |     |
|--|-----|
| AATAAAAAAA CACATATTAT GCTCGCAATT TTCAAATAGT GTAATTAAGC TCTTGTATTT  | 60  |
| AATAATAATC AAATACCTTT CTCTAAAGTA TAGTCAAATA ATAGCAACAC TAAAAAGTAG  | 120 |
| TAATATTCAT TAATGTGAAT CTCTAAATCT CTGGCATACA TTTTAAATGT CATTCAACGC  | 180 |
| CTTATCTTCA CAGGATTGCT ATTAATAGGA GAAAGTCTAA TGCACTCAAT TCTCCATTAT  | 240 |
| TGCTATCCAC TTAAAGAGAT GGGGGATTTG AAAACATAAA CATAACTAAA CCATAATAAT  | 300 |
| GATAAAGTTT TCAATCGAAT GGGTGAAAAA GTATAAGAAT ATTTAAGCTC TTCGAGATTT  | 360 |
| TTAATTAAAT TATTATATTT GTCTTTTATA GGCCTTAAAT TACAAGATTT TACCTATGTA  | 420 |
| ACATAGCCTC CTACAAACAA TTTCCAAACT TCTCCTTCTT TTATTTTCGTT TAACCTAGAT | 480 |
| TCTTCATCAA CATAACAAGT ATTGTTATTA TCTTCTTTAA TATTTTCTT ATTATTTTTT   | 540 |
| ATAATTGACC CAATATTTAA AAAACCATTT ATTTCTGCGA TCTTACCTTC TTTGTCCCTA  | 600 |
| TACTTATCTT TACACTCTCT TAACTTTTTT GATGAAATCA AAACCCCTCC TTATATTTTT  | 660 |

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| TTATATATAA | AAGATAAAAC | AAGAAAATAA | ATAAACCAAA  | TATAGTCTTT  | TTGGCTTGTA | 720  |
| AAATTTTATT | GGAATTCAC  | TTAATATTTT | TTTTATAAAT  | TAAATAAAAA  | CATTGATTTT | 780  |
| TGCACAAGCA | AGGGTAAAT  | AAATTCAAGT | CTTAATTAAA  | GATTCTTTTT  | TTAATAAAAT | 840  |
| CTTTAATCAA | GACTTGAAGT | CTTTACAATT | CACCACAATA  | ATAACTGGAA  | GATCTAAACA | 900  |
| AATAGAACCA | CCATTTATAA | GTAATATACA | TCAAATTTCA  | AATAAGATCA  | ACCCTTATTC | 960  |
| ACAAATTTTT | TATTTCTATT | ACTAACTACT | ATTTTTTAAA  | TCAAAGATTA  | TAAAAATAGT | 1020 |
| AGTTTATATC | TTATGTTTTA | TATACCAAAT | TATTCATAAG  | TGCTCAACTT  | TTAAATTCTT | 1080 |
| CCATAAACTT | TTCTAGCAAA | TCTTTTTTCT | CTATAAAAAC  | TCTATCTAAA  | AAGTAACCAG | 1140 |
| TAAATTTGGC | GTTTTTGCCA | TAAAAATCAT | AACTTTCCTG  | ATTTTCAAGC  | TGCAATCTTA | 1200 |
| ATATCCTTAT | TGATTTCTCT | TTTGCAATGC | CCTTATCTAT  | GTTAAACCTC  | TTAATCCTAC | 1260 |
| TATAAGTCTC | TGCAAATCCT | AGTTGCTTAA | TTTCATCTAT  | TTTTTAAATCG | CCCGATAGTA | 1320 |
| CATGCTTGTA | AAGCCTTAAA | TATAAGAATG | CTTGACTCCT  | TGCTATGACA  | AATTTTTTAA | 1380 |
| GAAAATCATC | AAATTTTTTG | TATCCATCAA | ATTTATAAAG  | TTTTTTAGTC  | CTTATTTTAT | 1440 |
| ATAAAATTTT | CATTAATTCA | ATTCTATTGT | CTATTTGCT   | TGTGGCAATT  | CTTCTTATTT | 1500 |
| GATTTTTATA | GCTTTGCTAT | TCTATTTTCT | CATCTTTTATC | ACAATTATTT  | TTTAATTGAT | 1560 |
| TAATACTGGT | TTTTCTATCA | TTTAAAATGA | TTTCCTTTCTG | CTCCTTTTTTA | GACATTAAAC | 1620 |
| CTCCTTTTCT | TTTAACAGTA | AAAAAGTACG | TTCAGCGTAC  | TTTTACTATT  | TTCTCCAAAG | 1680 |
| CTTCTTGAGC | CTCTTTGTAA | TACACCGCAC | TAACATCGGG  | TTCTTTTAAAC | TCATTAATTA | 1740 |
| AGACTTTAAC | GCTGTAAAG  | CTATGAATTT | TTCCCTTGAT  | TAATATACTA  | TATTTTTTTA | 1800 |
| ACACTTGCTT | TTCTACATCT | ATAAATGTAT | TTCTATTTTT  | AATAAACTGA  | TTTTCCACTA | 1860 |
| TTGAAATATC | AATCTTTTTA | TCTTTAAAAA | GATTGACTTC  | TTCTATCGCA  | TCCATTAACA | 1920 |
| TAGGAAATGC | TTCTACAGAC | CATCTTTCAA | GCTGAACAGG  | TATTATAACC  | TTATTTGTAA | 1980 |
| TATTTAAAGC | ATTATACAAC | AGAGGACCCA | AACTAGGAGG  | TGTATCAATC  | AATATGTAAT | 2040 |
| CAAATTTATT | ATTAATTAAA | ATTTTTTTTT | CACAATACTC  | TAATAATTGT  | TCTTTATATC | 2100 |
| TTTTGTCTTC | TTGTTCAAAT | TTACATAGAA | TTGGATGAGA  | AGGAACAATA  | TACATATTAT | 2160 |
| TATTTATTTT | GTTTAAATAT | TTGTTTGGAT | CAAATCCTG   | ATAATCTTTA  | AACATGTAGT | 2220 |
| AAACATTAAT | TCCTTCAATA | CTCTTAATAT | GCCTAATGAA  | GTAGCTAGTT  | AAACTATTTT | 2280 |
| GAGGATCTAA | ATCAACCAGT | AAAACTTTTT | TATTAAAATT  | CTTAAGAATG  | TAACTAAAAA | 2340 |
| TAATTGCTAA | TGCACTTTTA | CCAACCCCC  | CCTTAAGTGA  | TGCAATTGTT  | ATTATTTCTG | 2400 |

|  |      |
|--|------|
| TTTTTTTTCT ATCCATTTTT TTATAAATCC TCCATTAGGC AACTTTTTTAT TGTA AAAATTT | 2460 |
| ATATATTTCT CTTTCTAACT TAATTATTAA TTAAAGTAAA AATTGATTAT ACTGTGTTTC    | 2520 |
| TGCTTTTTCT TTTTAAATAA AACGAGACAT TCCCCTGATA TAACAATATA CACTTCCTCT    | 2580 |
| TTTAAATCTA AATTCAATAT AATGAATTTT TGAAAATGCA TATGACTTTG TTGTATTGTT    | 2640 |
| TTCTTGATAT TTTACTATAA TGTTTTGTAC TGGCCTTCTG TATCCATAAT ATATACCCAA    | 2700 |
| GAATTCATCA TTTTCCTTTA AGGGAAATAA ATTAAATTCA CTAATTTTTT CTTTATTAAA    | 2760 |
| TAGTCCTCTA AATGAAACAA AAAATTTATT TTGCTGATTT TTATTAACAC CAAATACATA    | 2820 |
| TAAATCACTC ATTATCCTTG TATGATATAT TTTTCTGTTA TTTTATCTT CCACTTTGGC     | 2880 |
| AAAGATAAGT TTTTTCGTG TTTTTTTTAT TTCTGATTTT TTGATTTTGA GACGCTTTAA     | 2940 |
| TAAACTTTCC ATAAC TAATC CTTAATTAAC AATTTATTTA CATGCCTCTA ATTGTGAACA   | 3000 |
| CCATTTATTA GGCTCTACTG TCTCTAAGAT CTCGTAATAG TAATAATTGC TAAAGACCTT    | 3060 |
| GCTATATTCT AATCTTTTTT GCTTATCCAA ATAATCTTTT AAAATCGGTA TTAAAATTTT    | 3120 |
| AATCTTTATT TTATGTCTTA ATTGTTCAAT AAGTATATTA AAGATATTAT TTCTAATATT    | 3180 |
| TGTGTCATTT TCTTTTATAT TTATTTTTTC TTGTTTAAAC TTATTTTTTAA GTTTTTCTGT   | 3240 |
| TATCTTCTCT AAATCTTCGT ACTTATTTTT TTCTATGATA AAATGTGGTT TATCTTTATA    | 3300 |
| TTGCTCATAT ATATCTTTTA TTTCTATTTT TAATTGCTCG CTTTATAAT TTTCGTTTTT     | 3360 |
| TAATTTAATT TTTACTTCTT TTAGTATTCT TTTCAATTTT TGTTGCTTGT TTTTAAGCTT    | 3420 |
| ATTTACTTCT ATTACCTTGA CAACGTTTAA TTTTTCAAAA ATGTTTTTTTT CAATTAAATT   | 3480 |
| TTCTGCCTTT TTTATCATTT TACATACTTC AATTGTAGCA TCTTTTTTTA ATCCCAAATT    | 3540 |
| TAAAAATAAGA GAGAATATAT TTGATTTAAA ATTGCATTTT TCAATGTATT TTCTGATTTG   | 3600 |
| TAACTTTTCT ATGGATTTAC GGCTGTTTCT TTTTCTTCT TTATTATTAG ATATATTATA     | 3660 |
| AAAACACTCC CTATTTTTTA CACTACTATT TTCAATGCAA TTCTTATTAA AATATGAATC    | 3720 |
| AACACGGCTT TTATATTTTT TCTTTTTTAT CTCTTTAAAA TGTTTATTAA TTAAATGGTA    | 3780 |
| ACATACTTTT TTGGGATATT TTAGTTTGTA ATGAACTTCG GTCCCCATGT TAATACCTAA    | 3840 |
| ATGTCTGTGG TAGTTACTAG TTAGTTTAAA TACCTTTTCT AATTTGTAAA GATAGTTTTG    | 3900 |
| TAGTGTTTTT AGCTTAACTT CTTTTTGACA ATTTCTTCTT ATATTATTAT TAAAGTAATA    | 3960 |
| AAGTATGTCA TTTTGAGTGT ATTGTTCAAG ATTTGAATTT ACATAATTCA GTGTTGATAT    | 4020 |
| TAGAATGATT AATTTGTGTT GGTATTTATT TGTAAGAGTT TTTATACTTT TCATTTTCTA    | 4080 |
| CCTTCCATTA TTGATTGTGG TTTATATCAA GGAATATAAT AACTCAATAA GCAATGAAAA    | 4140 |
| GTAAACTATT TTTTAAAAAA AATATTGATT TTTATATGGC CAACTCAGG CACAATGTCT     | 4200 |

|            |            |             |            |             |             |      |
|------------|------------|-------------|------------|-------------|-------------|------|
| AGCATTTGTC | TATAAACTTC | CTATCTAGCG  | TGTTGATATA | TAAGCTTTAA  | ACAAAAAAG   | 4260 |
| GTCGCTATCT | TTTGTTAACA | ATAATTTTAA  | CTTCAAGTTT | GCGCAAATTT  | TCGTCTATTG  | 4320 |
| GCATAGGGGT | TATTCTTACT | AACTCAGACT  | GCACAACTCA | CTAGAGGACT  | CAAATTTCTA  | 4380 |
| TCCAAATATA | ATAATCTTTA | GAATTTTTTAA | GTCTCGGTGA | AAAATTGGGT  | TTTTTGAAAC  | 4440 |
| AAATCTTGCA | TCACTAGAAG | AAAGTTTAAT  | CTCTTCAGTA | GATCTGGCTG  | ATTTTACTAA  | 4500 |
| TACAATTCTT | TTAAGTATTT | TATCTAAAAT  | TTTCTGTGTC | TTTTTCAAAT  | CACTTGCTAT  | 4560 |
| TCATCATCTA | ATTCACTTAA | TTTTTCTTTT  | CTCATTTTGA | TTTTGGCGTC  | AAAACCTCTCT | 4620 |
| TCAAGTCTGG | GAGTTGCATG | GTCCTTCAAA  | ATAATCAACG | CCCACCCCTC  | CATGACTAAA  | 4680 |
| ATCTCTACAC | ATATCGGTTA | TTTTATCTTG  | CATAGACTTG | TGGACTTCAA  | CAAAGATTG   | 4740 |
| ATCTAGAGCC | ATTTATCAAA | TTCATTAACT  | TAAATCAATA | AATTTAAAGT  | TTATGTAAAA  | 4800 |
| CATGCTAATT | ACTATTTCTA | AATCAAAAAGT | CATAATTTTT | TATGACAGCT  | TTTTAAGAGT  | 4860 |
| AGTCATCATT | AAACAACTTT | ATTATTAGAG  | CTTAATTAAG | CATTTACACG  | AGGCAAAGAC  | 4920 |
| TTAATTAAGC | TCTAATGGCG | GTCACAAATT  | AAGGTAAATT | TTAAATGAAA  | AACTTATCCT  | 4980 |
| TTACTTAGAA | GGATACACCA | ATTTAAAAAT  | AAAAGCAATA | AATCAACAAT  | TCAACAATCA  | 5040 |
| TATTAATAAA | CTATTTAAAT | TTTTTCTTTA  | AATTCTCTTA | TAATTTGTTC  | AACCCAATCT  | 5100 |
| TTTTTATCGA | AAAAACTTTG | TCTAAAAATA  | ACTCTGTAAA | TTTACAGTTT  | TTTATAAAAT  | 5160 |
| AAATAACTTT | CTTGATTTTT | AAGCTTAAGT  | CTTTTATATC | CATCGAGTTT  | ATAATAAACT  | 5220 |
| TTATTTTTGG | TTTCCATTAA | ATATATATGG  | CCTCTATCTT | ATTATAGATG  | TTCCCTTTTA  | 5280 |
| CATTATCTTT | TAATTTATTT | TTAATAAATT  | CAAATCTTTC | TTTATCATT   | AATGAATTTA  | 5340 |
| TATCATTATT | GACATCCAAA | ATATAATTTT  | TTATATCTTT | TAGTTTATTT  | TTAATAAATT  | 5400 |
| CAAATCTTTC | TTTATCATT  | AATGAATTTA  | TATCATTATT | GACATCCAAA  | ATATAATTTT  | 5460 |
| TTATGATTTA | AATTTCTTAG | ATCAATAGTT  | ATTCATTAA  | TATTTTTTTAT | TCATAAAATC  | 5520 |
| TCCTCGTTTA | GTTTAATTTT | ATTACTTTAT  | AAATTGTCTG | GCGCTGGACA  | GTTTATATTG  | 5580 |
| GGGGTTTCCC | ATTTTTTTGA | ATAAGTTCTT  | ATATAAAATA | TCAAATTATT  | TAATATATAA  | 5640 |
| TATTATTCCA | ATATGGAATT | TGATTTAAAA  | GCAAATACCA | TATGTTTGCA  | ATTTTTTTTA  | 5700 |
| TTTGTTTCCA | TTTTTCTGAT | ACAATGCCTA  | AAAAGCATTC | TTTCTTTGCA  | TTATTTTCAA  | 5760 |
| TAATTTTTTG | TGTGTATCGG | GCTTTTAAGC  | CTAATGTGTG | GCATTTAAAG  | AATATCTCAA  | 5820 |
| TACTATATAG | TCACAATTGA | CTTTTAATTT  | TGTTATTTCT | ATTTTCAATT  | CTGAATCAAT  | 5880 |
| AGCTTTGTGC | TTATTTAGGT | AATAGAAATA  | TCTATTTAAG | CTGTATAATG  | TCAAATGGCT  | 5940 |

959

|            |            |             |             |             |            |      |
|------------|------------|-------------|-------------|-------------|------------|------|
| AGGATTAAAT | CCAAATGATT | TTCTATTTGT  | AAGTG TAGTT | TTACCAACAT  | CACCTTTTAT | 6000 |
| GCTGGTAATT | GTTATTATTT | TTGTTCTTTT  | TCTATCCATT  | TTGTTATAAG  | CCCTCCATTT | 6060 |
| GATAATTTTT | TGTCGTAAAA | TTCATATATT  | TCTTTTTCCTA | AAGTTAAAT   | AATTTTGATA | 6120 |
| AGAGATTTAT | AATATTTTTT | TTAATTTTAT  | CTTTTCTTAA  | TAAATAAGAA  | ATTCCTACAA | 6180 |
| TATAACAAAA | TATGCTTCCT | TTCTTAAATT  | TAAATTGTAT  | G TAGTGTATG | CTTCTGTTTT | 6240 |
| TTCCCTATCA | AACAATTTTC | TAAATTGGAT  | AAAAAATCTG  | TGTTTTTGAT  | TCTTTTTTGT | 6300 |
| TTCAAATGCA | TGAAAGTCTA | AAAGTATTTT  | CGTATGATAT  | ATCTTTTTTT  | CGATTTTAAC | 6360 |
| AAAAATTTTG | TTTTTGTCTG | TTTCGATTTT  | TTTGTATTTT  | TCTTTAAGTT  | TTTCTAAAAG | 6420 |
| TTTTTTCATA | GTCTACCTTC | TATCTAATAA  | AGTCTACCTT  | CTATCTAATA  | ACTTTTCGGT | 6480 |
| TGTCAAAAAA | TTTATTTGTG | TTTTTTTATTA | AATTTAGTAG  | ATCTAAATAG  | TATTTGTTGT | 6540 |
| TAAGTAGATA | GGAATATTTT | GGTTTTTCTA  | TTTGAATTAA  | ATACTAACAA  | CACAAAAAAA | 6600 |
| TATAAAAACC | AATATACTTA | ACATATTATT  | TGAACAATTA  | AAATCAAAAT  | TTGAAATTGA | 6660 |
| CAATGAAATT | TTACTAAGAA | TGGTAAAAAA  | GTATATTAGG  | TTTATCTATG  | TTTTTTTATT | 6720 |
| ATTTGGTTTA | AATCATCATA | TTTGTGTGTA  | TCGATTATAA  | AATGAGGGCC  | TATGTTTGTA | 6780 |
| TTGGTAAATA | TACCATTTTA | AAAGn CCTTT |             |             |            | 6810 |

(2) INFORMATION FOR SEQ ID NO: 21:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5805 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| CTTGCATGCC | TGCAGGTCGA | CTCTAGAGGA | TCCCCGTGTA | AAAATTGAAT | CAGTGCTTGC | 60  |
| TATCCACTCA | CCTAGCAAAA | CTCTTGCTTT | ATATGATGGT | ATATCTTTAT | ATAGCTTTTC | 120 |
| TTGTGTTTCG | ACAAATCCTT | TACTAAGTAG | CACATTATCA | TAAGTTGTAA | AATTATATGT | 180 |
| CTTAAAGGTC | GCTATATTAT | CAATATAATC | GGTTTTAAAA | TAGTGTCTG  | GATGATCrGG | 240 |
| ATTAGTATCA | AAAATAATAG | TTTCTTGCCC | GCATCTTAGT | CTTTTAAAGA | CyTCCTCTAA | 300 |
| AGTTTGCTTG | TGTAAAGTTG | TAGCCTCATT | AACAAAAATA | AGTGCCGAAT | TACTTCCCCT | 360 |
| AAATCTTTCA | AAATCACTTG | CCTTATCTCC | wCCATATAGA | TTAATACGTA | GTGAATCAAT | 420 |
| CAGAATATAT | GAATTATTTG | TATGTCTTGG | AATATAAGGA | ATTTTAAGAA | GTTTACATAG | 480 |
| CTTTTCAAAT | TGyCCCAAAA | CATTAACTTC | AACTGArCGT | TGTGAATTCC | CAATAATAAA | 540 |



|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| ATTATTArTA | TCACyAGAGT  | ATAACTTTTT | ATTTTCAATT | AAACTTTTGA | GAAAAAGATA | 600  |
| ACATGCAAGA | TACGTTTTGC  | CGCTAGCTAT | GCCGCCGCTG | AGTATAATCT | TCTTTTCATT | 660  |
| ATTTTTTTGA | ATACTTTTTA  | TAACATTTTT | TTGTTTTATG | GTTAACTGTT | CTTTTTCAAA | 720  |
| CTTATCAAAA | TTAATTGAAG  | AATTTGTTAG | CTTTACAAAT | TGTGATATGT | CAACTCCATA | 780  |
| TTTATTTTTG | TATTCCTTTT  | GTAGTGTTGT | AAAAAGTTTT | GTTTGATATA | AGTTCACTTG | 840  |
| TACCCTTTAT | AACTTTTGTA  | ATTGCCTTTA | TTCTCAACTT | CATGAGCAGA | AGAAAGTTTT | 900  |
| TTCATACATT | CATAGTAAAG  | CTCCATTTCT | CTTATTGAGC | ACTCCTTTAC | ATATTCATCA | 960  |
| AGCTCACTTT | TTAAAGAATT  | AATTTCTCCA | TTAACAACTT | GCTTGTTTTT | TTTACTACTT | 1020 |
| GCTTTATTTA | AAGCATCAAT  | TTCGGCTCTT | AAATTTTCTA | TTTTAGTATG | CATACTAAAA | 1080 |
| AGCTCAACAC | TAGAATATCG  | CTTAAATGCA | TGTATAAACC | CTAATTCTAA | ATTGGCTCGC | 1140 |
| TCTAAATCCA | ATTCGCTTCT  | AACTTTCCTA | GCGTTAACTT | CTGATCTAAA | GGTTTGCGAC | 1200 |
| AAAAGGTGTT | CAAAAGTATC  | TTCACTAATT | GTTAGTCTAG | AGTCCTCGCT | AACAGAAGTT | 1260 |
| TCTCCACTTT | CCCACTTTTG  | TCTCATTCTC | CACACATTTA | CTTTAGAAAC | CCTTAGTTTA | 1320 |
| GCTGCTATTT | CTTTATCACT  | TAACGATCCT | TCTCTAAAGT | ATGCAACATA | ATCATTAATA | 1380 |
| GACCTTTTGG | CTCTTTTCAA  | GAAAATTCTC | CTAAAATAAC | AAAATTAACA | ACTTATTACT | 1440 |
| CTAAATAGTA | ATTCAATTTA  | TTAATTATTA | ACATTAACTA | TTATCTTATT | GATATCTATT | 1500 |
| GACAGATGTT | TGATATTTAT  | TGACTTTTAT | TGATTTAGAA | ATAGCGATTA | ACTAATTTAT | 1560 |
| TAAATTTTGC | TACAACTTGA  | CTATACCAAT | TTGGAAAAAT | CTTTTATTGT | TTTTATAAGA | 1620 |
| TACTTCCTTG | TGCAAATTCC  | CTTATCATAG | TAGTGCATGA | TTATAAATAA | TATATCTACA | 1680 |
| AAGTTAAGAA | CCCCGTCTAT  | TGATTCTCGT | TTTGGATCTT | TTCTACCAAT | CTCATCCATA | 1740 |
| ATATCAGAAA | CAATACTCAA  | AAACCGGTCG | GAATATTTCT | CTCCCATTTT | TTTCAAACAT | 1800 |
| TTTTCTAGCA | TTCTTTTCTT  | ATAGCTACAA | TCAAACCTCA | TATTTTGGAA | ATTTTATAC  | 1860 |
| TTTTCTATTA | TATGCTTATC  | TTTCAGAAC  | TCTTTAATAA | AATTTTTTGC | AGGGTTTATA | 1920 |
| ATACCATTTA | TAATTTTCATC | AATACTTTTT | CCGGTTTTTC | TTTTGTATTC | TTGTATTGAT | 1980 |
| ACAAAACCTC | TATAAAAATC  | CTTTTTTTGT | TCCAGAGTTA | ATTGCTTAAC | TCCATAAAGT | 2040 |
| TTGCTTATTT | CCTTTTTTGT  | GCCTGGGCTC | AAACAATCAT | AAAAATCTGA | AATTTCATTT | 2100 |
| ATATACATCA | AAACTCTAGA  | GAGTATATAA | ATAACAATA  | TTTTTAACAA | TAGTTTTTGG | 2160 |
| CATTTTCACT | TCATAAGTGA  | TATAGCTTAA | ATAGAAAAAC | AAGACTATCA | ATTGGCCTTG | 2220 |
| TTTTTCTAAA | TTCGATTAA   | AATAAAAACT | TTTTCTTTAT | TCTTTTTTAC | CTTCTACAGT | 2280 |

|             |             |            |             |             |             |      |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| TTCTCCAATA  | TTTTTAAGTT  | CTTCTTCAAT | CTTTTTAAGC  | GAATTAGTTA  | TAACTTCATT  | 2340 |
| GGTCATATCG  | CTAGTATTAT  | TACCACTAGT | CATATTTTTA  | AACCCCAAAC  | TATTAGCACA  | 2400 |
| CTGCCAAGCT  | TGTAATCCAA  | CACCACCTTG | TCTTTGGACT  | TGAGAACCAT  | GCGTTACTCC  | 2460 |
| AGTTGCAGAT  | TCAGCTTGGT  | TTTATACTC  | TTCAAATTTT  | TTTTTAGCCT  | CTTGTAAGC   | 2520 |
| TTTTTTTCTC  | TCCTCTTTTT  | TCTTTTTTAA | GCTCTCTGAA  | AGTTCATTTA  | ATTATCTTC   | 2580 |
| AAGTCCTTTT  | CCGTTTAATT  | TTTCTTTTAT | TTTGTTTATT  | TTTTCTTCAT  | ACCCAGAATA  | 2640 |
| TGTTTCAATA  | GAAGTTTTTT  | TAGAGTCTAA | TTTTTCTATC  | TTATTCTTTA  | ATTCTTGAAT  | 2700 |
| TTGTTTTTCA  | ATTTCTTTTG  | TATCTAATGT | GTTTAAATCT  | TTTGTCTCTA  | AAATTTCTAA  | 2760 |
| AAATCCTTCA  | ACTTGTTTTT  | TTATCTCTTG | TTCTGTTTTT  | TTTACATTTT  | GTTCTGAACT  | 2820 |
| TTCTAAATCT  | TTCACGCCC   | CTTCTAAATC | TTTACTAGTT  | ACATCATTTCT | TACAAGAACT  | 2880 |
| TATCAGCATA  | AAAATAGCAC  | AAATAATAAA | CATTTTTTATT | TTTTTATTCA  | TAAAGATTGT  | 2940 |
| CTCCTATGTT  | GTAAGCGTTT  | ATTTCAAATT | CTTTTTTAAAT | TCATCTTAAA  | TTCCCTCTAAT | 3000 |
| AAAATTGCAT  | ATGTATTATC  | TCTTCCTAAA | AATGTAATAA  | ATTGAGAGTC  | ATTAATAGTT  | 3060 |
| TCTATTTTTG  | TTTCTATGTT  | TTTGATTTTA | TAATCTTCTC  | CTTCTTGATA  | ACCATAATAA  | 3120 |
| TCCGCATTAA  | ATGCTCCTCC  | TCTAATCATT | GAATTTACAA  | AGTTGTTAAT  | TTCTGACTCT  | 3180 |
| TTTACTGAAA  | ATAATCTAGC  | CGTGTGCCCC | CCAACATTTA  | AATCTGTTAC  | AATACTATAT  | 3240 |
| TCTTCTTTTA  | TTAGATCTAA  | AGTTCCTAAA | TCTATCCAAT  | TGCCGATATT  | TGTTTTTTTA  | 3300 |
| TATTTAATAT  | ATACATTAAA  | ATCAAAAAAT | TCGTCAGTTT  | TTATGCGAAG  | ATATCCAAC   | 3360 |
| AAAGCGCACC  | TTCTGAAATA  | AGTAATAGCT | GCTCCAACCA  | TTTGGGGTAC  | GGTCTTTCCA  | 3420 |
| TTTTTTAGAGC | TGTTTTTCATT | GGTCCATTGT | AATTTTTTCTG | TAAAAGTTGG  | CGTATCAAAT  | 3480 |
| GAGTATTTGT  | ACACAGTGCT  | TGTACTGTAG | AATGTCGTCC  | TAATATAATC  | AACTATGCCA  | 3540 |
| TATTGCCCCCT | CTACAGAAAT  | TGGATCTTGC | GTAAAAAAA   | GATCCAAATT  | ATGCTTATCA  | 3600 |
| ATAACGTTTT  | TAATTTCTCT  | AACTATGTCA | TCTAAACTTC  | GATAATTATA  | CTCGTACCCC  | 3660 |
| TTAGAATTCT  | TATTAATCCC  | TGATAAATTC | ATTCTTAGGG  | TTTTTCATATC | TTTTCTGAAG  | 3720 |
| CTTATTTTTG  | CTTGAATATT  | ATTTTGCATT | TCTTGATTTT  | TTTCTGAAAC  | ATTGTTTCATG | 3780 |
| GGGTTCCCCCT | TCTAATTATT  | TTTCAAAATT | TTACCTAGCC  | AATACTTTGC  | TCATCATATA  | 3840 |
| AAGATAAAGT  | ATTATTTTTTA | CAAGAAATTA | TCAAAACAAA  | AACTGCACAA  | ATAATTAAAT  | 3900 |
| TTTTTCATTTT | CTTATTCATA  | AGTTACTCCA | TAAGTCCCAA  | TATTACCACA  | ACAGCTAATA  | 3960 |
| ATTGCAATAT  | TTCAAAGATT  | TAAATATATA | ATTTTGTTAC  | ATTTCGAATT  | ACATTGTTAC  | 4020 |
| AAAACTAAAA  | TGTAATTTTA  | ATCAAACTCA | TAAAATCTCT  | CCATTGCAAA  | TGCACTACTC  | 4080 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ATTATAAGAG | ACTACAAAAC | ACATACAAAT | TAAATTTCAA | AGTCTTTGCT | ATATATTACA | 4140 |
| CAAAGTATTG | TATCTTTCTT | GTGTACCACC | CTTAAAAATT | GCCTCTTCTG | TTTATCCCAC | 4200 |
| CTGCTCTACA | GCCCAGATTT | TGCATGCAAT | GAGAACTCAC | AAAATTTGAC | TAAAATTTTT | 4260 |
| AGTTTTTGGT | ACAATATAAA | TTACATTTTT | CATCTATTTT | TATTACTTTT | ACTTAATTTA | 4320 |
| AAAGTAACAC | TTATAAGGAG | CTTGTCTTAT | GGATACTAAT | AATTCCTTTA | ATTTAAATAA | 4380 |
| TTTCAATATG | GATTTTACGC | TCAAACATAT | TCAAGAATAC | CAAAATGCAT | TAAATAAAAA | 4440 |
| CAAAATCTTA | GAAAATGAAA | ATAAAATTCT | TAAATCTCTA | GAAAATTCAC | CTAAACGTAA | 4500 |
| GAAAAAAAAT | TCAAAACCAA | CTCCTAAGTT | TTATTTGACC | CCTAAAAGTA | TTAAATTAAT | 4560 |
| TCTAAAATGT | GCCAAAACCC | TAAAACAAAT | TGACCCAATT | TCTGGTTGGT | TTGTGCATCT | 4620 |
| ACTCTTAATA | AGTGGATGTA | GAGGCACTGA | AATGCAAAAA | GTAAAAATGC | AAGATATTTT | 4680 |
| AACTTTTTTA | AGCAAAACCG | GAAAAACTTT | ATATACTATT | AAAGTAAATG | TGGCAAAAAA | 4740 |
| AAGAAATACC | TCTTGTATTA | GAGAAATTGT | CATCAACTCA | GAAGAGTTCG | AGGCTATCCA | 4800 |
| AACAGCACAT | AAAAATCATT | TCCAAGAAAA | AACTCTTGAC | TCGCGACGTA | CTTATCTTTT | 4860 |
| TCAAAAGAAC | AAACATAAGT | TTAAAGATAA | CCAAATTGAT | ATTGTCCATA | TTTCTAAAAA | 4920 |
| ATTCAAAAAT | CTTCTTAAAA | AATCGGGATT | TCGTGTAAAT | AAATCTCTCC | ATCTATGTCG | 4980 |
| AAATTTATTT | ATTTCAAATT | TGAAATCTAA | CGGCTACAAT | TCTTTTCAAA | TTAAAGAACT | 5040 |
| TATGAAATAT | TCTTCAACCA | ATGAAATTGA | TAATATCTAC | GGmCTmTCTT | CTGCTAATAA | 5100 |
| AATTCAAGCT | TATGAATGTG | CTAAAAAGTG | CCTTAAACTT | TAGTAAAACT | ATTTCAGTTT | 5160 |
| AAATATACGC | TTTGAAGTTA | CTTTAAATAT | TTTTCCACGw | GGctTTcAAG | TCAAGTGAAT | 5220 |
| CATATAATAT | TTCTTTATTT | TTTGTGCTA  | TAAAGTGATA | TCCATTAACC | TTATCGATTT | 5280 |
| TAACTTCrCT | TATTTCAAAT | TCATTGGCTG | CACCTAAATA | ATTTAAAGAy | TCATATCTCA | 5340 |
| CrCTACTTCT | AATTCCGTAr | TAATTAAGTA | TCATACATrG | ATTTATAATA | AAACAATTGC | 5400 |
| TCTTAATATA | TCCAAGTCCT | ATAAATCTAT | AATACGCTGC | ATTTATCTCA | TAmrCAyTAA | 5460 |
| ATTCACGTTT | CTTAAATAGA | CTTGTATAAT | AATGTAGACA | CAAAAAGTAA | CAACCCCAT  | 5520 |
| TTTGTATCTC | CAGTCTTAAA | GTTCTATTGT | CTtGTTTTAT | TTTATTAATA | AGCATTAATT | 5580 |
| AATCCTCCTA | TATTAAATTA | TTTTTTTAAT | TTTTTAGTGC | ACCCATCACA | TGGGGACACT | 5640 |
| AACACTATTT | GCAAATGCTA | TATTACTAGG | GAAAAATACT | GTACCACTTG | TTGGTAGTAG | 5700 |
| TCCCTTTAAT | CTATCTGATA | TGCCCNtTTC | TTAGGGnCAA | GAGTAAACAC | AAACTCTCCA | 5760 |
| AATTTATAAT | TAACnGCTCA | ATAGTGGGTA | nGTATCGGAA | AATGn      |            | 5805 |

## (2) INFORMATION FOR SEQ ID NO: 22:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

|  |      |
|--|------|
| CTCAAGATTA AGTAAAGCAT TGCGAACTGC ACTGTAAGTT GTGCTTTTTG AAGAAATATG  | 60   |
| TTCTTCAATA GCAGCCCAAT AAGTACCACC AGGTTTCATT TTAGAAAAAA AGAGATTGAG  | 120  |
| CTCATTAATT ATTTCTTCTT CAATTAATGC CAAAGAAGAC GCAATAATGT TATAAATTGA  | 180  |
| GCTTTGATTG TCGTCAATAT TAaTmCCaTA ATTTACaCGC AAaTATTCTC TTTTmGmTCT  | 240  |
| TACAaTATCC yTAaTTGTAC GTTTTAAaAT GCCAAaATCA GAATCAAAAA CTATrCTCAT  | 300  |
| AAATTAAACT CCATATTyAA AACaTCGCCg aGAAAAAAA GGATATATGT GCTTTGTTGT   | 360  |
| CTTGATAGT AGTTGAAATA TTTATTAAAT CTAAGTTAAG CTCTTTAGAT ATTTCATGAA   | 420  |
| AATAATTTTT TACAGCGTGA AGATTGTAA TTTTAAACAG CTTTAAaAGC AAGAAATAGT   | 480  |
| CCAATCCCCA ATGAGGAGCA TAGCTTAAAC TACCCCTTAA GGTTTTTAAA AATATCAAAA  | 540  |
| ATCTTTGTTT TTGTTTCATCA ATTCCATCAA CAAGTGATAA ATCGTTATTA AATACCAATT | 600  |
| CAAAATTATT GCCTAATCTT AAATCCATAC TAGTAATTAT ACCATATTTA GCAAAAATTA  | 660  |
| CTTAAACAAA CTATTAATAT CAGAATTAAT TTGAGCGGTT GCTATTTTTTA AGCTTGATTC | 720  |
| GTCAATTACT GAGTCCCTA TAATTTTTTAT ACCATTGATA GCACTAACAA TATTATCTAG  | 780  |
| AATTTTTTTT AAGCTAGTTG TTTGGTTTGC TATTTCAATT TTATTATTCG CTCTAATTTT  | 840  |
| AACAGTATCA GAGATTAGAT TTAAAGTCTT TGGGCTAATT GCACTAAGTA TATAAAAATG  | 900  |
| ATGTTTGTC AAGTGAATAT CGTTATTTTT ATCAAAAATA TTAATGCTTG ATTGAAGTAG   | 960  |
| TAAAACGyWA TCACCTTTTG ATArTTCTAA ACTGATATTA GAGATATTTT TTGTGTGAAT  | 1020 |
| TTCTAAATCT TCAAATTCGG GTATTGTAAC AATAGCyTCT TGAGTTTGwT GTTTAAACTC  | 1080 |
| CTTTACAGTG CCAATTTTAA TTATAAAAAT GTTTGAATAA ATCCAATTTT TAACGTCCTC  | 1140 |
| TTGTGCTAAA GCATGACCAT AAAGACGCTG GTTCATTCTG TAAATTTTAT AGTCTTTAGT  | 1200 |
| CATTTTAATC CCCTTTACTT TATGCATTTA ATCAGAATCA TCAGAATCAT CCTTTAATTT  | 1260 |
| AAGTATTAAT GAACACTCTC CTGCGTTGCT AAGTCTTGCA CTTGTTTCTT TTATGGTGGT  | 1320 |
| TTTTATCATT TTCCTAATC CATCAATAAA TGAAACTTTA TCGCCAATTT TTAATTTATG   | 1380 |
| TGTGTAAaAT GTTTGTGCGT TCCAATATAC ACGTTTTATC TTGTATTAC CTTCAATAGC   | 1440 |

|            |            |            |             |            |             |      |
|------------|------------|------------|-------------|------------|-------------|------|
| AATTTCTTGT | TGTGGAATGA | ATTCAAGTCC | ATAATCTTCT  | AAAGCTTTGT | AATTTTCATC  | 1500 |
| TGCTTCAGTT | GTTATATCAT | TAGTAAATAT | AAAATTACAT  | TCAACATCAA | AGCTGTCACC  | 1560 |
| ACCAACATCA | GCTATTACGT | CATGAATATA | TATTCCTTTT  | ATTTTGTCAA | CAAATTCTTT  | 1620 |
| TGGTGTGTG  | GCATAAATAT | CTTTTTCAAT | GATTTTAAGA  | CGATCTTCTT | TGTCCATATT  | 1680 |
| AATAATATTG | CGATTAGGAA | ACACAGATTC | TATTGCCTCT  | TGCACCGTTT | TCCCCTTGAA  | 1740 |
| GTTTTTGTTC | TCTAATTTTC | GATCAAAGAA | GTTGCTACTA  | ATTGCTAACC | GAACGTCAAG  | 1800 |
| CTCAACACTA | AAATCACCAC | CAGGATAATC | AGTGCTCATA  | GGAGTTCCTA | AATACCCCGA  | 1860 |
| CATTATGAAA | TCAAAATTTT | TTTCATGAGC | AAATTTTTTA  | TAGTGTATTT | TTACTATATC  | 1920 |
| TCCTACTTCA | ATGTCGTTGG | TGAAGTCTAA | GGGCAAATTC  | CAAAGTACAA | TTTTTGTTTCG | 1980 |
| TTTAGATTTT | ACAAAATTAT | AATTTGAAAA | CTCATTAGAT  | ATGGTAATAT | CAATATGAAT  | 2040 |
| TCCATGTTGT | GTATTTATTA | TAATTTTGGG | AGTTTCTTCA  | ATTAAAGAAT | CTCCAGAGCT  | 2100 |
| TGTATCCTTT | TCTAAGGATT | GTTTTGCTTT | GTAAAATTCA  | ATTTTAAAT  | CATATTGTAG  | 2160 |
| TAGCAACATT | AATTATCCTT | TATATTTTTC | CAATTCAAAT  | GTTTTTACAA | TTTCTATTGA  | 2220 |
| TAGACTAACT | TCAACTTCAT | CAATGAAAGG | AACATCCTTA  | AACGAAAGAC | TTGTAATTAC  | 2280 |
| AGCTAATTCT | TTTAGGCCAA | AAGTTGGACT | GTAGATACTA  | AAGGGAACCT | GAGCTTGTAT  | 2340 |
| TCTATTTGCT | AGTTGTTCTT | TTGCAAGATG | CACGTCAAAA  | CGTAGCATAG | TATTGCCAAA  | 2400 |
| AACAGTCATT | TTGAGCAAAG | AAAGCATTTC | TTTATATAGT  | GAGGTTAATA | CCCCACCATT  | 2460 |
| TAATGAGATA | TTTTACCAAA | TCATTACTGG | ATTGTAGCTT  | ACATATTCCG | CTTTTCTATC  | 2520 |
| GTAATAGTTG | ATAACTGGTC | TTTTGGAACA | ACTGGTATTG  | TAAGTGCGTG | CTATGAGTTC  | 2580 |
| GGTTTTTGGT | TTTATAAAAA | ACAATTGAGG | AACATATCCA  | AAACCTTTTA | AATCCATTCT  | 2640 |
| TGGAAATAAC | ACTAAAAAAT | TATCTGCTCC | GAAAAGAGCA  | AATATTTGGG | TTATTACATC  | 2700 |
| TCTTATTATT | CGAGTAATCT | CCCAGAATTC | TTTCTTTTCA  | ACATCTTTGA | TTTTTTCCTC  | 2760 |
| GAATTTTTTC | TTTTCAAGAT | TATTATTGAT | AATATTTTTTA | TTGTTAATAT | CCATAGAATT  | 2820 |
| TCCTTTTTAT | TTGAAATTTT | CTAAATCATC | ACCCCGGTG   | TTATTGTTGT | TCTTCCAAA   | 2880 |
| AATCGTATTA | TTAATCCAAC | CAGTCGCGAA | GTTATAAGTA  | TTACCAACAA | CATTACTAGC  | 2940 |
| GGTATTATAT | AATGAGCTGC | CAATGTTTTT | TATTCCGTCA  | AAAGCACCTT | TTATACCGCC  | 3000 |
| TGTTATGGCA | TCAACGATTT | GTTTTAAGAT | TTGTTCAAAA  | TTAAGGTTCA | TAATCTTTTC  | 3060 |
| AAGAATACCA | GAAATTTTGC | CAATTACTGG | CATCAAAACA  | TTATTAGTTA | CGTCTTCAAG  | 3120 |
| ATTTTGCTCT | ATTTTAGCTA | AATTACTTTT | AGCTAAAGCA  | ACTTCATCAG | AATGACCCAT  | 3180 |

|             |            |            |            |            |             |      |
|-------------|------------|------------|------------|------------|-------------|------|
| TATATTCAAA  | GATGATATAT | CTTTTATTAA | GTCTTTAATT | ATCTCTGGCC | TTAGCTTTTT  | 3240 |
| TTTCCCTCCC  | TCTTGAGTTA | GAAACTCTAA | CTTGTTTTTC | ATGGCTTCTA | GATATTTTTTC | 3300 |
| TCCAAATTTG  | TCTATAGGTT | TCAATATATT | GAAAGCTTCT | GTAAGTTCCC | CTTTAAGTAT  | 3360 |
| TTTTGAAACA  | ACTTCAACAG | CACTTTCGTT | ATCACCAACA | AGCCCCGTAC | TTCTAAACAT  | 3420 |
| AGCTGCTAGT  | TTTGTTCAT  | TTAATACATT | CTCTCCCTCT | TCATCATTA  | TTTTTAATTC  | 3480 |
| CCTGATGTGG  | CCTTTAAGCA | CACTCGATGT | TCGCAGAAAG | TCTTGTGTGT | CTAATTTCCG  | 3540 |
| CTCAAATCCT  | TTCATTCCCT | TAATAGCACC | CAAAATATTT | TCACGTTCTT | TTTCACTGTA  | 3600 |
| AAACACTTTA  | TTAAGTTGTT | TTAGTTGTTC | TTCTTTAGAT | TTATTTTCAA | CTGCTTTTTT  | 3660 |
| AGCAAATCCA  | TACATAAATC | CAATAAGCCC | GCCACCAACT | TTACTTACAG | CGTTGCCAAT  | 3720 |
| GACATTTCCCT | AAAGCACTAC | CTATTGCAAT | TTTGGCAACA | AGTCCTTTTC | CTTGAGAAGC  | 3780 |
| TGCGAGCATT  | TTACTTTTTG | CTTTTGATTC | TTTGTCAAGC | TCTTTATACT | CAAGGCGTCT  | 3840 |
| TTTGTCTCTA  | TCAGACATCA | AAGATCTTTT | GAAAGCTTCT | TTTCTTGCTT | TCTCAAACCC  | 3900 |
| CATGCCCTGT  | TTCATAAGCT | TTTTAGTCTG | TGTAAGTCTA | TATTTCTCAA | CACGCTCTCT  | 3960 |
| TAAGCTTTCA  | AATTTAGATT | GTTTGCTAAG | TTCTTTTTTC | TTGTCCGACA | AATTATTTTT  | 4020 |
| TACAATATCT  | TTAGTGCTAC | CCAAACTAGA | TTTTTTGGGT | TTAAGATATT | TTTCCATTTT  | 4080 |
| GGAAATATCT  | TGTTCAATAG | CCTTTTTTGT | TGCAGCATGA | TCAAGAATCC | CTTTAAATTT  | 4140 |
| AATGGTGAAT  | TTGTGCTCA  | TTAAGCCCTC | ACTTGCTTAA | AATTAATTCA | TACAATTCTT  | 4200 |
| TTTCTAATTT  | AATATCAGCA | AGTCTATTTA | CCTCTAAAAG | CTCGTCATAA | GGCAATTTCT  | 4260 |
| TTACCGAGTC  | GTATGAGCAA | ATATTCATAA | TTACTGGAAA | ATAGTATTTG | TCGTTCTTAA  | 4320 |
| TTTCGTCAAG  | CAAGTTAAAA | TACTTTTTTC | TAGTCTCATT | AAGACTTGCA | ATGGCTTTAT  | 4380 |
| CAATATCTCT  | ATTTCTTTTG | ATCATTTAGC | AACCAGCTCA | TTGGAATTTG | ATGTACTTGA  | 4440 |
| TGAAAGCGAA  | GTGGCTACTT | TTTCATAATC | AAAGTTTTCA | TTGATATAGT | CAAAAGTAAC  | 4500 |
| AAAGTCCCCA  | ACATTATTTT | CATACTCACT | CAAATATACC | AAAGCGGGTT | TTTTTAGATC  | 4560 |
| ATTGTCTAAA  | TGAAAAGTAT | TAAATTGTGC | GGTGTAATTT | ATTGCAACAA | GATAGTCTTT  | 4620 |
| ATAATAAGAA  | ATAAATTCTC | TATTTTGATC | CAAAATCACA | TAGAATTCGT | CTAAAAATTT  | 4680 |
| TGGACTTATC  | ATTAAACTTG | TGATTTCTCT | TAAGTATTGA | ACCTCATTA  | GCTTTAAAC   | 4740 |
| AGCGTCACTT  | TGATTAAATC | CGAGTACTCT | ATCCCATTC  | TAGACCGGCA | ATACTTTTAG  | 4800 |
| TGGATATTCA  | TAAGTTTTAT | TTTTAGTTAA | AATTTTCATC | TTATATCTCA | TTATCATAAT  | 4860 |
| AAGACTCTCC  | TTTTAAGAGT | TGTTTGGTTT | AGATTTTTTG | CAATTAATAG | CCCTAATTTT  | 4920 |
| AAAAGATACT  | TTTTCGGCCT | CAGCAGAATA | ACTTCTTGAA | GGCTCTTCAG | TAAAAATTGC  | 4980 |

ATAGTTAGAA ATAATTTTGG TAGCAATTCT ATCATTGAAT GCTAAATCAA GCATTTTATC 5040  
CTCTTTTCTC ACATCCATGT TGTAAACTG TTCATCAGAA AGTTCAGTTA ACAAATGTA 5100  
GTCATGACTA CCCAAAGTAA CTTCAATGTT GAAAACATAA GTTATCGTTT TGGGATCTCT 5160  
TAAGCTTATT ACAGGCATAC CTTTATCTTC ACTACTAATC ACTGCTCTTG TTGTGGGTTC 5220  
GCTTGTAAGT TCTAGTTTGC CACTATGTAG CTGTGTACCA CCAATTGAAA AATAAACTTC 5280  
TCTTAAATCA TAAAATTGCA TTTTATAGCCC TCCTTTTAAG CACTTAAGCT GTTTTGATAA 5340  
TCAACTATAT CTTGAGTAGa ATTACTAAAG AAACAGC 5377

## (2) INFORMATION FOR SEQ ID NO: 23:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5121 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

CnTTTGCTGT TATAGTATCT AGATTATCtT CTGCCGAATT TATTACAGCT GTTAATGAAT 60  
TTAAGGATGC TACTGAAAAG TATGCTAATG GCAATAAAGG AGACCATGCT GTTGATGTTG 120  
TTGTGGGTGC TATTGCAGGC ATAGCTTTTG ATAATGAGAA TAGATTTGAA AGAGCCAAAA 180  
TGTTTGCTAA TAAGGAAAAA GGTGCGGAGG TAGACAAAAT GATTGCTGCC ATTGAGAAGC 240  
TAAGAGCTAC TTATACTGCA GTTAAGCCTA AAAATAAAGA TAAATAAATA ATAAATGTAA 300  
TAACTGGGAA AATACAGAGA ATATTCTTAA GCATTTTCTA TTGAGCTTTT TGTATACATA 360  
ATTTATTTTG GTTATGTTTT ATTATGTTTT ATTTTTTATA GGATATAAAT AGACATATAA 420  
GTCTATAAAA ATATTTGTCA CACAAGACAT TCATGTAATC ATTTATTTCT ATTATTATTT 480  
GATAAATTTG CTCAATATGG CTTTTTTAAA AAAATAGGGC ATATCTTTAA AACCCTTATC 540  
AATAAAGCAG CATTAATGAT AATTTTGGA ACATTTGCTA CACGTACAAG ATATTAAACC 600  
ATTTTTTTTC TTAGCATTA TATCATATT ATATATTTAA AAATAAGCCA CGATTAAGGA 660  
TCCAAATCCT CCTGGGACAA CATATGGGGT TGATCGTATA TATTTTAGCC CCTATTCCAT 720  
TAAAAATAAC ATTTGATAAT TCATTTAATT TAAAAATGAA TTATCAATTA CAACAACTC 780  
CATGTGATAA GATGGATAAT AACTATCGGA TTTTCTTAA TCCCATTATC TAGCATCCGG 840  
AGCTTTCAGA GTAAACATTT ACATTTGATT TTTTATTAAA GAGCTGCTCT TTTAATATTA 900  
CCAGACTAAA ATTATTTAAA ATAACATTTA CACATAATAA CACTATCTAT TGGACTTACT 960

|            |            |            |            |             |             |      |
|------------|------------|------------|------------|-------------|-------------|------|
| GAATCATACT | AAGATAAAGA | AGTTGGCAAA | TATATTTTGG | TTGAACAAAT  | AATTAAGAAG  | 1020 |
| TGTTAAAACT | AATGAAAAAT | CCATTAATTT | TAAGGAAGGT | TTACAAAACA  | TAAAAGATTT  | 1080 |
| CTTCCTGCAA | AGTTATTTAC | CTAAATATGC | TTAATAGTAA | TAGCTTAAAA  | GCGGATATAA  | 1140 |
| ATATTATTGT | AAGAAGAGAG | TCGACAATTT | TGATACTACT | TAAAGGTTTG  | GATTATTCTA  | 1200 |
| TTTCTGCTTT | GTTTGTTTTA | AAGCGATTTA | TGGTTTGAGG | CTTAATGTTG  | ATTTTTTTTAC | 1260 |
| CTTTTTTTAT | TTAAATTTAT | TTACAATAAA | GCTTTTACTA | TAAATGAATT  | ATGAATATTT  | 1320 |
| TAATAAGAAC | AAGTCAkATC | TCATAATTAG | TGCAATCAAG | AAAAAAAaTT  | AGCACATATC  | 1380 |
| CATTTATGAT | TTAATTTCTA | CTATTTAGAT | CAGTGGTGAT | GCATTATTTT  | AGCTTAAAGG  | 1440 |
| AAArYtATAA | CAATAGTTAA | AGTACAGTAG | ATGTrCTTTA | ACTTATCACC  | TATATAAATA  | 1500 |
| CAACACTAAT | TAATAyATAA | ATAGAAATGA | TTATTTTCAT | AATATAyCAT  | AAGCAAGCCG  | 1560 |
| TTTACAAGCT | TCCGCTATAG | mACTGGCAGC | TTCGCTTAGC | AATTTCAATG  | ACTCGCCAAA  | 1620 |
| CTGTCCCGAT | GCACtCTTAG | CACCCTGCAA | CAACTCACCA | CAAACACCAT  | TGCCATTACC  | 1680 |
| TTTAACGTCG | CCAAGGTATT | TCTCTACATC | TTTCATTAAC | TCATTTATAC  | ATTTTTTTAAC | 1740 |
| CAAATCTTTT | CCTTTTGTCT | TAGGATAAGA | ATTCAAGCTC | ATTATAGAAC  | AACtATACTC  | 1800 |
| ATCCTTTTCA | TTTTTATTAA | ATTcATCTAC | CACTTTCTTT | ATTTTCTCGC  | AGmTATTATC  | 1860 |
| ATCAAAATTA | TCATTATCGC | TATCATTTAT | TTTTGGCATC | ACAGCTTCTA  | ATATCTTrTC  | 1920 |
| TAACAAGCAT | ATTCTACCTA | TCCCGATCTT | CATATTGTCT | GAAAGAGGAT  | ATGAGGCATC  | 1980 |
| ATATCCTGAA | GCTATCAATA | GCTTTAAAGA | TTCATCAATC | TTTTTGGCTG  | ATTCTCTAAT  | 2040 |
| ATCTCTTACA | AGTGAGGGAA | CCTCTCCCAA | TGCTATACTA | GCATTCCCCT  | TTTTACTACT  | 2100 |
| TAAAACCTTA | TCTTTAGATT | CCTTGGCAGA | AATACTAGCC | TTTTCAACCA  | TATCTTTAGG  | 2160 |
| ATTATCCTCC | TTACTTAAGG | CCTTAATTTT | CAATGCAGAT | TCAAACATAC  | CTTTTACACC  | 2220 |
| CACAACCTTA | GGATTCGAGT | GGCCACCACC | TTTTTCCATA | GTGTCATTTA  | AATTTGAATA  | 2280 |
| TCATAATTTA | CAAGACATTG | CTAAAAAGCC | ACTAAACAAA | TATAAATATA  | TTTTCATCAT  | 2340 |
| ATTTAAACCT | CTCTTTACAA | GAGTAATTTA | CATCAyTTTA | TTAGGATTAC  | TACCTATCCG  | 2400 |
| GCATTTAATC | TTTCTGAGAT | TATCTATTTT | ATCTATCAAT | GTAAAGTTAA  | ATGAACtGCC  | 2460 |
| AAATTATTTG | TTATATTTAT | ACTCTTTGTT | AGCTTTATGT | TTTTAAGTTT  | TTAAACAATA  | 2520 |
| TCTATCTTTT | TGCCyTATAA | TTTTATCTGC | GCCCAGCTTC | ATAATACACT  | CATCTTGAAT  | 2580 |
| ATAACATGAA | AAAATATAAT | ATrCCAATA  | GAAATCTTAT | AATTCAATTT  | TTAGTTCAAT  | 2640 |
| ACTAAACATA | TTGTAAAAAG | GAGTATCCTT | AAGATTTATC | TTTTTTATTAA | ATTCCAATAT  | 2700 |
| ATTTGACACC | TTTAAAGAAC | ATTCTTTAAG | AATTAaaaaa | TTATTTTCAA  | AATAGAATTG  | 2760 |



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|--|------|
| CAAGGAATGA GTATTTAGAT TGGTTCTTAA AGAAACCGTC GTTTGGAGTA GCTCATAAAT  | 2820 |
| CCATGCTAGT TTGATCCCAG CTCCCCAAAA ATAATTATTA TTCTTCGAAT AACTCTCAAA  | 2880 |
| TACTATTGAC AAATCATTAA AAACGTCATT TTCAAAGCTA ATATAATATC TAAGACCAAG  | 2940 |
| CAAAAATCTA TTGTCATCAT CATCAAATTT ATAATTTTTA GACCAAAGTA GGTCTTGTCT  | 3000 |
| TAACGTAGAG TAAAAAATA TTCCACTATA AATTTCAAAT AAAAAATCAA AAATAACAGY   | 3060 |
| AATATCAAAA GTTTTATTTT CAATGCTAAA TGGGAATTCA ACCATTGCAA GTAAATCAAC  | 3120 |
| TTCATTAAAA GATGCTTGAA AATAAAGCCA AGGGGATAAA TATTTGGGAG ATAAAAATTT  | 3180 |
| ATCTAAGCTT TCTTTGTCTA ACATAGAACC CAAAGAGACA GAATAATTAG AAATAAATA   | 3240 |
| ATAAACTCA AAAAACCATT CTGGTTCTAT TGTGGTCCTT TTTAAACAA TATTTTCAAT    | 3300 |
| TAATCCATTT CCTAAATAAT AATTTTGCCT AACTAATTTA AAAATAAAAT CATTAAGCT   | 3360 |
| TAAATTGAAG AATAATTTAT TAAAACTAAA ATATTGATCa TTATTTTGCA CAATAAAGA   | 3420 |
| AGGTGCAATG CCAAATTCTA ATATTTTATA GTTTAATAAA AATCCTAAAT AAGCTTCATT  | 3480 |
| GkCAAATTGT AAAGCTCCTG TACCAAAAAA ATCTTTTTTTA TCTTCATCGG GCAACAATAA | 3540 |
| AGAGGAATTA CAAATGCCAA GTCAATAAGA TTCCCAATAA TTACTACAAC ACATAAAAAA  | 3600 |
| GAATTTAAAG AAAAAACAAA ACTTTGCGTT GTGCGAAAAC TTTAACTGCA AATAATATTG  | 3660 |
| AATCTTACAA TCAAATTTT GGAGATATTA AAACAAATAT AAAACATTTC GAAGACCATT   | 3720 |
| TTATGAAAGA ATACTTTGAT TTTATTCTCC GGATTAAATC TATTAAATCT ATACAAATTG  | 3780 |
| TTGTACTTGA TTTTTTAAAA AGAGAAGAAT TATAACTTAT ATTCTTAAAT TTCATGCAAT  | 3840 |
| CTAAATTTAC GCTAAAAACA TCAATGGAAA TTAAATCTT AATATTAAAT AAGTTTAATA   | 3900 |
| TCATTTGACA ACAATATTAA ATTGTAATAT TATTATTTTT AACTAAAATT AATATTTATT  | 3960 |
| AATTCAAATT TATAAGGAGA ACATTTTGAA AAACCTTAAA TTAAATATTA TTAACTTAA   | 4020 |
| CGTTATTACA GCAATATTAA CTTCAATTTG CATATCATGT GCACCTTTTG GCAATGTAA   | 4080 |
| TCCAAACGAA CAAAAAATC CTACCACTTC TAAAAGTCTA AAAAAACAA AACGAAGCAA    | 4140 |
| CAATTCTAGA AATCTAAAA ACACAAGCAA TCACACCAAT TCAGAAAATT TAACAGGAAA   | 4200 |
| TTCAACAAAA AATCCATCAG AAAATAACCA AAATCTTGAA AATGAATCTC AAAATTCAAA  | 4260 |
| ATCTTCAAAT CAAAATTCTC AAGAAGAAAC CACAATCTCA AAATTAAAA ACATTGGTAA   | 4320 |
| AGACCTGGAA GCTCAAAAA AGAAAGAAGA TACAGGAATA ACTAAAATGT CTAAAATTGA   | 4380 |
| TAATGCTAAA TATGATTTTC TAGAGACTTT TAAACTTAAA CAAGATGATG TTTTATGTT   | 4440 |
| TCATGCTAAA ATGAAATTAA AAAGAATAAT TTACCCATCC CTAAATTACG ATACAAAAA   | 4500 |

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AATATTGGTA TTAAAAGAAA TTCTTGAAAA ACTTGATACA GAAGATAATA ACCGAAGAAT 4560  
AGCTGGTCAA TTTTGTAGAAA CATCAAGGGA TATTCAACTT CATCTAGAAG ACACGTATTT 4620  
AAAAAAATA CAAGATACAT TACAAACTCT AAGTGAAAA GAAGCCGAAA AGTTGCTACA 4680  
AGGTGTAAAA CTTGATTTAA AGAAAAACA AACTTTTGCT AAAAGTTTAA ACGCAACCAT 4740  
TGACGCTTAC AATAAAAATG TTGATAACAT TAAAATAGAT AATAAAGCGC TAGCAAAACA 4800  
CATAAAGGAT AAATATTCCC ATCCTCTTTA TCTACTAAAC CAAGCTGATT AATCTAAATA 4860  
AAAAAATAAT ATGCTGCACT TTATATTTTA AAAAGAGAAG AATTAAGTTC TCTTTTTTGT 4920  
GTTCATACAA TCTAGATTAT CACTAAAAAC ATGCAATAGA AATTAAATTT TCAATATCAA 4980  
ATAAAAATAA ATTTAATATT GTTATTTTGA ATTAAACTA ATGTTTAGTA ATTCAAATAT 5040  
ATAAGGAGAG CACATTTTGA AAAACCTAAA TTAAATATTA TTAAGCTTAA CTTTATTACA 5100  
GCAATACTGA ATTCAATTTT C 5121

(2) INFORMATION FOR SEQ ID NO: 24:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5107 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GCTGTGAAGG GTAATAATGA GAAAGAGAAG GCTGAGGGGG CTATTAAAGA AGTTAGCGAG 60  
TTGTTGGATA AGCTGGTAAC ACTGTAAAGA CAGCTGAGGG GGCTTCAAGT GGTACTGATG 120  
CAATTGGAGA AGTTGTGGAT AATGATGCTA AGGTTGCTGA TAAGGCGAGT GTGACGGGGA 180  
TTGCTAAGGG GATAAAGGAG ATTGTTGAAG CTGCTAGGGG GAGTGAAAAG CTGAAAGTTG 240  
CTGCTGCTAA AGAGGGCAAT GAAAAGGCAG GGAAGTTGTT TGGGAAGGCT GGTGCTAATG 300  
CTCATGGGGA CAGTGAGGCT GCTAGCAAGG CGGCTGGTGC TGTTAGTGCT GTTAGTGGGG 360  
AGCAGATATT AAGTGCGATT GTTAAGGCTG CGGATGCGGC TGAGCAGGAT GGAAAGAAGC 420  
CTGCAGATGC TACAAATCCG ATTGCTGCTG CTATTGGGAA TAAAGATGAG GATGCGGATT 480  
TTGGTGATGG GATGAAGAAG GATGATCAGA TTGCTGCTGC TATTGCTTTG AGGGGGATGG 540  
CTAAGGATGG AAAGTTTGCT GTGAAGAATG ATGAGAAAGG GAAGGCTGAG GGGGCTATTA 600  
AGGGAGCTGC TGCAATTGGA GAAGTTGTGG ATAATGCTGG TGCTGCGAAG gCTGCTGATA 660  
AGGATAGTGT GAAGGGGATT GCTAAGGGGA TAAAGGAGAT TGTTGAAGCT GCTGGGGGGA 720  
GTGAAAAGCT GAAAGCTGCT GCTGCTGAAG GGGAGAATAA TAAAAAGGCA GGAAGTTGT 780

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| TTGGGAAAGT | TGATGGTGCT | GCTGGGGACA | GTGAGGCTGC | TAGCAAGGCG | GCTGGTGCTG | 840  |
| TTAGTGCTGT | TAGTGGGGAG | CAGATATTAA | GTGCGATTGT | TAAGGCTGCT | GGTGAGGCTG | 900  |
| AGCAGGATGG | AGAGAAGCCT | GAGGATGCTA | AAAATCCGAT | TGCTGCTGCT | ATTGGGAAGG | 960  |
| GTAATGGGGA | TGGTGCGGAG | TTTGATCAGG | ATGAGATGAA | GAAGGATGAT | CAGATTGCTG | 1020 |
| CTGCTATTGC | TTTGAGGGGG | ATGGCTAAGG | ATGGAAAGTT | TGCTGTGAAG | GGTAATAATG | 1080 |
| AGAAAGAGAA | GGCTGAGGGG | GCTATTAAAG | AAGTTAGCGA | GTTGTTGGAT | AAGCTGGTAA | 1140 |
| CAGCTGTAAA | GACAGCTGAG | GGGGCTTCAA | GTGGTACTGA | TGCAATTGGA | GAAGTTGTGG | 1200 |
| ATAATGmTGC | KAAGGyTGCT | GATAAGGCGA | GTGTGACGGG | GATTGCTAAG | GGGATAAAGG | 1260 |
| AGATTGTTGA | AGCTGCTrGG | GGGAGTGAAA | AGCTGAAAGT | TGCTGCTGCT | AmAGrGGrsA | 1320 |
| ATAATAAAGA | GGCAGGGAAG | TTGTTTGGA  | AGGCTGGTGC | TGATGCTAAT | GGGGACAGTG | 1380 |
| AGGCTGCTAG | CAAGGCGGCT | GGTGCTGTTA | GTGCTGTTAG | TGGGGAGCAG | ATATTAAGTG | 1440 |
| CGATTGTTAA | GGCTGCGGCT | GCTGGTGCGG | CTGATCAGGA | TGGAGAGAAG | CCTGGGGATG | 1500 |
| CTAAAAATCC | GATTGCTGCT | GCTATTGGGA | AGGGTAATGC | GGATGATGGT | GCGGATTTTG | 1560 |
| GTGATGGGAT | GAAGAAGGAT | GATCAGATTG | CTGCTGCTAT | TGCTTTGAGG | GGGATGGCTA | 1620 |
| AGGATGGAAA | GTTTGCTGTG | AAGAAGGATG | AGAAAGGGAA | GGCTGAGGGG | GCTATTAAGG | 1680 |
| GAGCTAGCGA | GTTGTTGGAT | AAGCTGGTAA | AAGCTGTAAA | GACAGCTGAG | GGGGCTTCAA | 1740 |
| GTGGTACTGC | TGCAATTGGA | GAAGTTGTGG | ATAATGCTGC | GAAGGCTGCT | GATAAGGATA | 1800 |
| GTGTGACGGG | GATTGCTAAG | GGGATAAAGG | AGATTGTTGA | AGCTGCAGGG | GGGAGTGAAA | 1860 |
| AGCTGAAAGT | TGCTGCTGCT | AAAGGGGAGA | ATAATAAAGG | GGCAGGGAAG | TTGTTTGGA  | 1920 |
| AGGCTGGTGC | TAATGCTCAT | GGGGACAGTG | AGGCTGCTAG | CAAGGCGGCT | GGTGCTGTTA | 1980 |
| GTGCTGTTAG | TGGGGAACAG | ATATTAAGTG | CGATTGTTAA | GGCTGCTGGT | GAGGCTGCTG | 2040 |
| GTGATCAGGA | GGGAAAGAAG | CCTGAGGAGG | CTAAAAATCC | GATTGCTGCT | GCTATTGGGG | 2100 |
| ATAAAGATGG | GGATGCGGAG | TTTAATCAGG | ATGGGATGAA | GAAGGATGAT | CAGATTGCTG | 2160 |
| CTGCTATTGC | TTTGAGGGGG | ATGGCTAAGG | ATGGAAAGTT | TGCTGTGAAG | GATGGTGGTG | 2220 |
| AGAAAGAGAA | GGCTGAGGGG | GCTATTAAAG | GAGTTAGCGA | GTTGTTGGAT | AAGCTGGTAA | 2280 |
| AAGCTGTAAA | GACAGCTGAG | GGGGCTTCAA | GTGGTACTGC | TGCAATTGGA | GAAGTTGTGG | 2340 |
| CTGATGCTGC | TAAGGTTGCT | GATAAGGCGA | GTGTGACGGG | GATTGCTAAG | GGGATAAAGG | 2400 |
| AGATTGTTGA | AGCTGCTGGG | GACAGTGAGG | CTGCTAGCAA | GGCAGCTGGT | GCTGTTAGTG | 2460 |
| CTGTTAGTGG | GGAGCAGATA | TTAAGTGCGA | TTGTTAAGGC | TGCGGCTGCT | GGTGCGGCTG | 2520 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| AGCAGGATGG | AGAGAAGCCT | GCAGAGGCTA | AAAATCCGAT | TGCTGCTGCT | ATTGGGAAGG | 2580 |
| GTGATGGGGA | TGCGGATTTT | GGTGAGGATG | GGATGAAGAA | GGATGATCAG | ATTGCTGCTG | 2640 |
| CTATTGCTTT | GAGGGGGATG | GCTAAGGATG | GAAAGTTTGC | TGTGAAGAAT | GATGAGAAAG | 2700 |
| GGAAGGCTGA | GGGGGCTATT | AAGGGAGCTG | CTGCAATTGG | AGAAGTTGTG | GATAATGCTG | 2760 |
| GTGCTGCGAA | GGCTGCTGAT | AAGGATAGTG | TGAAGGGGAT | TGCTAAGGGG | ATAAAGGAGA | 2820 |
| TTGTTGAAGC | TGCTGGGGGG | AGTGAAAAGC | TGAAAGCTGC | TGCTGCTGAA | GGGGAGAATA | 2880 |
| ATAAAAAGGC | AGGGAAGTTG | TTTGGGAAAG | TTGATGGTGC | TGCTGGGGAC | AGTGAGGCTG | 2940 |
| CTAGCAAGGC | GGCTGGTGCT | GTTAGTGCTG | TTAGTGGGGA | GCAGATATTA | AGTGCGATTG | 3000 |
| TTAAGGCTGC | GGATGCGGCT | GAGCAGGATG | GAAAGAAGCC | TGCAGATGCT | ACAAATCCGA | 3060 |
| TTGCTGCTGC | TATTGGGAAT | AAAGATGAGG | ATGCGGATTT | TGGTGATGGG | ATGAAGAAGG | 3120 |
| ATGATCAGAT | TGCTGCTGCT | ATTGCTTTGA | GGGGGATGGC | TAAGGATGGA | AAGTTTGCTG | 3180 |
| TGAAGGGTAA | TAATGAGAAA | GGGAAGGCTG | AGGGGGCTTC | AAGTGGTACT | GATGCAATTG | 3240 |
| GAGAAGTTGT | GGATAATGAT | GCGAAGGCTG | CTGATAAGGC | GAGTGTGACG | GGGATTGCTA | 3300 |
| AGGGGATAAA | GGAGATTGTT | GAAGCTGCTG | GGGGGAGTGA | AAAGCTGAAA | GCTGTTGCTG | 3360 |
| CTGCTACAAG | GGAGAATAAT | AAAGAGGCAG | GGAAGTTGTT | TGGGAAAGTT | GATGATGCTC | 3420 |
| ATGCTGGGGA | CAGTGAGGCT | GCTAGCAAGG | CGGCTGGTGC | TGTTAGTGCT | GTTAGTGGGG | 3480 |
| AGCAGATATT | AAGTGCGATT | GTTACGGCTG | CGGCTGCTGG | TGAGCAGGAT | GGAGAGAAGC | 3540 |
| CTGCAGAGGC | TACAAATCCG | ATTGCTGCTG | CTATTGGGAA | GGGTAATGAG | GATGGTGCGG | 3600 |
| ATTTTGGTAA | GGATGAGATG | AAGAAGGATG | ATCAGATTGC | TGCTGCTATT | GCTTTGAGGG | 3660 |
| GGATGGCTAA | GGATGGAAAG | TTTGCTGTGA | AGAGTAATGA | TGGTGAGAAA | GGGAAGGCTG | 3720 |
| AGGGGGCTAT | TAAGGAAGTT | AGCGAGTTGT | TGGATAAGCT | GGTAAAAGCT | GTAAAGACAG | 3780 |
| CTGAGGGGGC | TTCAAGCGGT | ACTGATGCAA | TTGGAGAAGT | TGTGGCTAAT | GCTGGTGCTG | 3840 |
| CGAAGGCTGC | TGATAAGGCG | AGTGTGACGG | GGATTGCTAA | GGGGATAAAG | GAGATTGTTG | 3900 |
| AAGCTGCTGG | GGGGAGTAAA | AAGCTGAAAg | CTGCTGCTGC | TGAAGGGGAG | AATAATAAAA | 3960 |
| AGGCAGGGAA | GTTGTTTGGG | AAGGCTGGTG | CTGGTGCTGG | TGCTAATGGG | GACAGTGAGG | 4020 |
| CTGCTAGCAA | GGCGGCTGGT | GCTGTTAGTG | CTGGTTAGTG | TGGGGAGCAG | ATATTAAGTG | 4080 |
| CGATTGTTAC | GGCTGCTGGT | GCGGCTGCTA | GTGAGGCTGA | TCAGGAGGGA | AAGAAGCCTG | 4140 |
| CAGATGCTAC | AAATCCGATT | GCTGCTGCTA | TTGGGAAGGG | TGATGCGGAG | AATGGTGCGG | 4200 |
| ATTTTGGTGA | TGGGATGAAG | AAGGATGATC | AGATTGCTGC | TGCTATTGCT | TTGAGGGGGA | 4260 |
| TGGCTAAGGA | TGGAAAGTTT | GCTGTGAAGA | ATGATGATGA | GAAAGGGAAG | GCTGAGGGGG | 4320 |

|   |      |
|---|------|
| CTATTAAGGG AGCTAGCGAG TTGTTGGATA AGCTGGTAAC AGCTGTAAAG ACAGCTGAGG | 4380 |
| GGGCTTCAAG TGGTACTGAT GCAATTGGAG AAGTTGTGGC TGATGCTGCG AAGGCTGCTG | 4440 |
| ATAAGGATAG TGTGAAGGGG ATTGCTAAGG GGATAAAGGA GATTGTTGAA GCTGCTGGGG | 4500 |
| GGAGTGAAAA GCTGAAAGTT GCTGCTGCTA AAGAGGGCAA TGAAAAGGCA GGGAAGTTGT | 4560 |
| TTGGGAAGGy TGGTGmTrmT GCTCATGctg GGGACAGTGA GGCTGCTAGC AAGGCGGCTG | 4620 |
| GTGCTGTTAG TGCTGTTAGT GGGGAGCAGA TATTAAGTGC GATTGTTAmG GCTGCKGrTG | 4680 |
| CGGCTGAGCA GGAkGGAAAG AAGCCTGCAG AkGCTAmAAA TCCGATTGCT GCTGCTATTG | 4740 |
| GGAAtAAAGA TGAGGATGCG GATTTTGGTG ATGGGATGAA GAAGGATGAT CAGATTGCTG | 4800 |
| CTGCTATTGC TTTGAGGGGG ATGGCTAAGG ATGGAAAGTT TGCTGTGAAG GGTAATAATG | 4860 |
| AGAAAGGGAA GGCTGAGGGG GCTTCAAGTG GTACTGATGC AATTGGAGAA GTTGTGGATA | 4920 |
| ATGATGCGAA GGCTGCTGAT AAGGCGAGTG TGACGGGGAT TGCTAAGGGG ATAAAGGAGA | 4980 |
| TTGTTGAAGC TGCTGGGGGG AGTGAAAAGC TGAAAGCTGT TGCTGCTGCT ACAAGGGAGA | 5040 |
| ATAATAAGA GGCAGGGAAG TTGTTTGGGA AAGTTGATGA TGCTCATGCT GGGGACAGTG  | 5100 |
| AGCTGCT   | 5107 |

## (2) INFORMATION FOR SEQ ID NO: 25:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 5068 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

|   |     |
|---|-----|
| CACATTATTA AATCTAGAAT TGAATAATTA TTCTCAAAAA AAACATATTA AATTTTACAA | 60  |
| CGAAATTCTT AAAAAAGATA ATAAAAATTC TTGCGATCTA CCAACAATGA ATAAATATCT | 120 |
| TGATATATTA GAAAAACAA AAACCATAGT AAAACTATCT TTAAAAACC AGTCCAAATA   | 180 |
| TATGATTTAT TATAAAATTA ATTACCCCTT TAAAGTGTTT CGTTCAACAA TACAAGACTA | 240 |
| CTATCAACA ATArCAGATA AACTAAACT ACGGTTAGAA CTAACTATC CTACTACTAT    | 300 |
| TTAATCGTAA AAAATATTTT TTTGCAAAAT AAGCAATTTA GAAATATAAA TGTAAGACA  | 360 |
| TATATTTTTA TTTGATAAAT AATAAAAT ACTGGGGCAC TATTTGGAAA AATTTTAAA    | 420 |
| AGAAATATTA AGTATGAATA GCAAAAATAG GCTATCTTCA CACTTAATAA TTCTTATTTA | 480 |
| CACACTAAAC AACATTGACC TAAATTCAAA AAATATTGGA TACTATAGTA GGGGCTTTAT | 540 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| ACGCCGTGCG | TTTACTTTTA | ACATAGATAG | ATATTGCAAT | ACTAGTAAAG | ATATTGAAAT | 600  |
| AGACATAGAC | TTATTAATAA | AGTATCTCGA | TTTTTTAGAA | AACAACCTAA | AAATTATAAC | 660  |
| TAATAAATAT | AAAGTAGAAA | AAAATATATT | CAAACTTTAC | TACATAATCA | ATTATCCTTT | 720  |
| AAAAATATGT | TACACAAAAA | TTATGAACTA | CTATAAATAG | ACTATATAAT | GATATTAAAA | 780  |
| AGAGAAACAT | CTTTAGTATA | TTACTAAAGG | TGTTTCTCCC | CTTAATCTAA | AGTTGTTTTA | 840  |
| AGGTGTATAA | TGGGGGTGAT | ACCATATTTT | AAATTATATA | TCCCAAATTA | ATtAAAAAAT | 900  |
| CAGGTATTGC | AAATGTATTA | TAGTGTCTCA | TAGGCCTAAT | AAAGAACAAT | TAAAACATAA | 960  |
| AAATATATAA | ATAAACGCA  | AATTAGAAAA | AGAAATAACC | GTCATAGTCA | AACTTTATTT | 1020 |
| TAAGAAAAAT | CCTAAATCTA | TAATTTATTA | TAAAGTTAAT | TGCTCCTTAG | AAAGAGTTTT | 1080 |
| ATTAAAAATA | AAAGACTACT | ACGTATTATT | CTATGAAGAA | TTAAAACAAT | TTTTACAAAA | 1140 |
| AATCACTACT | ACTTAATTAT | AAATACATTA | TAAAATAAGC | TTATGCAAAA | CTTTAGAAAT | 1200 |
| ATATTGTTTT | ACGCTAAAAA | AATTTAAAAA | AATACTGTGC | TATATTTATA | ATATAAATTT | 1260 |
| AATATAATAG | GGGGCTAATT | CATTATGGAT | GGAGTAATTA | ACAATACATT | GGCAAGAATA | 1320 |
| ACAAAGCAAA | TTTAATTTGC | TAAGAATAAG | TTAATCATTC | TTGTCAAAAC | ACTAGATCAT | 1380 |
| ATGAATAAAA | AATTATTCCA | TAGTGCAAAT | AAAAATTATG | CTTATTCCTT | AATAAGAAGC | 1440 |
| AAGTTTAATA | AGGCTCTAGC | TAAAACATAA | CAACATGAAG | TTGATTCTAA | AACCCTGTTA | 1500 |
| GAATATCTTG | AAATATTAGA | AAAAATCCAA | AAGTAATCTT | CAAATGTTCC | ACAAATAAAG | 1560 |
| AAAATGAAAG | CTTTAGAGGC | CTTTAGTAAG | CTAATATAAT | CCAGAAAATT | TACTATAAAT | 1620 |
| CGATTATATA | AATAGTAAAC | CAATATCTAT | CCTAGTGTAT | TATGGCCTAT | AATAGGCCCA | 1680 |
| ATAAAGATAA | TAATAAGCTT | ACTATATTAC | AAAACATAAC | CCTCGCTATA | TTATGAAAAT | 1740 |
| CAATACTAAA | ATAATGGGCA | CTTAAAGCAA | TTGGTTAAAA | TAATTTCTAT | AAATGCCTTT | 1800 |
| AAAAATTATT | GAATATTAGA | AAATATTATA | TCAAAATCAT | TTAATTGAAA | TTAAATAAAC | 1860 |
| TAAATTAAAA | GAAAAATTCA | GATATATTTT | AAATGTATTA | TGGCATATAA | TACTATAGCG | 1920 |
| CCCTAAACAA | AATAAACAT  | AAATTATTAA | AATAAATCAT | TTATATAAAT | CAATATATAT | 1980 |
| ATCTCAAAAC | AAAGAAAATT | TATATAAATT | TTAGGCCTAC | TAGCGTATCG | TAGACCTAAT | 2040 |
| AAATAATCAA | CAAAACACTG | GTGTGTTTAT | TACAATTAAA | TTAATAATAT | TATATATAAG | 2100 |
| ATTTAAAAAT | TTTTTAAAAA | AGAAATTTGT | TATAAACATA | TTGGTTAAAA | TCAATATAAA | 2160 |
| TCAAAACAAA | AAAATCTAAA | TATTAATCTA | ATAATATTCG | AAATTAACAT | CACTACAAAT | 2220 |
| ATAAATAACA | ACAATAAACT | ATTAAATAG  | TAAAATACCT | AAAATTTAGC | TCTCAAAAAG | 2280 |
| ACATTCAATT | GTCAAGCGAA | ATTCAAGCAT | TAAAAGATAC | ACGAACCATT | GCTAGTGCTA | 2340 |

|             |             |             |             |            |            |      |
|-------------|-------------|-------------|-------------|------------|------------|------|
| ATTCATCTAA  | TCCGCCCTTT  | AACTCCCCTA  | ATTATATTAT  | ATTCAAATTA | TCTTGAAAAT | 2400 |
| AGAAAAACAA  | GTTGATAGAA  | AAATTACTAT  | TAATGAGATA  | ATTAATGAAA | ATGGTAAAAA | 2460 |
| AACTAAAAAG  | CTTTTGAAAA  | TTCAAAAAGA  | TAATATTTCC  | CTACTTAAAA | ATGAATTCAA | 2520 |
| CATGGTGAAA  | GTTTAAAGGC  | TAAAGTTTAA  | TGAAAACCTCT | ACAAACTCTA | CATTAAAATC | 2580 |
| TACTTAGCAC  | AGCAAAGTAA  | TTCATACAAT  | ATCTTAAGAA  | AAGATTCAAC | TCTAAAAATA | 2640 |
| AAATTTAAAA  | ATTGTGCTAA  | TATTTTATTA  | TCAAAAATTA  | ATTATTAGGA | GGTTATATTA | 2700 |
| ATATAAAAAA  | AACTTTCATA  | TTAATATGAA  | TTTTTAGTTT  | AATAATGAAA | ATCTTTGCAC | 2760 |
| AAGATAAACT  | TGAAAAAGAT  | GTCGGACATA  | TTACAAACAC  | ATTGAAACAT | GAAAACATAA | 2820 |
| AAGCAACCGT  | AATTCCTCTAC | CATTCATTTT  | GAATGCAATT  | GTAACCTTGG | AAATAGGATC | 2880 |
| TTTACAAAGT  | TTTCATATAT  | ACTCTTTGCC  | AATATAAAGC  | TAAAATAAAC | TATAAAAGTT | 2940 |
| TATCAAAGCA  | CTATTCTTGC  | TAAACTTAAA  | AAGTTCTATT  | AATAAGATAG | ATTACACTAG | 3000 |
| AATTAATAAG  | CATAATGTAC  | AAGTTTACAC  | CAATTTTATC  | TTTTCTCAAT | ATTTGTAAAT | 3060 |
| ATCAAAGCAT  | TCTATTAATT  | CTATAGAAAT  | TAAATATTTA  | TGTAAAAGTA | TAATAATTAC | 3120 |
| GCTTAATAAA  | AAAAATTATT  | AACAGATATA  | AAAATAATAT  | AAACCTTCTC | ACAATAAAAA | 3180 |
| TATTGATATA  | AATCTTCCAA  | TATTTTACTA  | TTCTACATTT  | GATTAAATAT | ATATATTATA | 3240 |
| TTTAATATTG  | GtTTATATTT  | AATATTGGtT  | TATAAATTTT  | AGATTTTAAT | TAAGGAGAAT | 3300 |
| ATTTATGAAA  | TATAACATTA  | TTGTAAGCTT  | ATTTGTTTTT  | TTATTTTTAG | CTTGTAATCC | 3360 |
| AGATTTTAAAC | ACTAATCAAA  | AAGATATGAA  | GTACCAATCT  | AGTAAAAAAG | GACTAAAATC | 3420 |
| TAATAAAAAA  | AGACTAAAAAT | CCAATAAAAA  | GGGATTAACC  | CctATAGCAG | AAGCAAGCTC | 3480 |
| AAATCAAAAA  | GAAAGCTAAA  | ATCAAGAAGC  | AATCTCCAAA  | AAAGAAAAAG | ACATTAATAA | 3540 |
| CCAAACAGAA  | AACACACTGC  | TTGATGATTT  | AAAAAATTTA  | ATAGAACAAG | CTAAATCGGA | 3600 |
| TAATGrTAAA  | TATGTACAAA  | AATTAAAAAGA | AGAATCTTCA  | AATCAATATG | GAATACTGGC | 3660 |
| TTTCAAAGAG  | TTGTTCTAGC  | CAGACGGAAC  | TGAACAGTTA  | TCTGCAAACA | CCGAAAGATC | 3720 |
| TAAAGCCTAT  | AGAAAACGAA  | CTTATAGTAT  | CTTAAATGCT  | ATCGATAATG | ATGCCTTAAA | 3780 |
| GAATTTTTTCA | GAAATTGTAA  | TGGCATCAGG  | CCAAACACAA  | GGAATACTTA | ACAATCTCGA | 3840 |
| CTCACTTGGA  | GGTGCCTTTG  | AAGATATAGT  | TGATTTTCTG  | TATCCTAAAA | AAGATAATCT | 3900 |
| AGAAAAATTA  | GAGATCCCGG  | CCTTAAAAAA  | GCTTAAAGAT  | TCTTTGGAAA | ATTTTTTAGA | 3960 |
| GATAAAAAAA  | ATCACTTCGG  | AAATGTTATA  | CAAGTTCTTA  | TTAGACTATA | AAAATAATGC | 4020 |
| AAATAGTATA  | CAAACAGATG  | CAAATGCACT  | TAAATCTCAT  | GCAAACACAC | TTTTTAATCA | 4080 |

975

|   |      |
|---|------|
| ACTGACAAAA AAAATCGAAG AATCAGAAAA GCTAAAAAAT GACATATATT CAATAGAAAA | 4140 |
| CCTTTAATTT ATATGCTATA TATTGAAATT GTCATAATGC AAAGGCCTAT CTTTAATAAA | 4200 |
| AGATAGGCCT AGCGTTATAA AAACTGCTAT TTCAACAATC AATAATTATC GAAATAGCTT | 4260 |
| ATTACCTCAA TCACATGATA GCTTTTAAAG CTCTAACATA AAAACAGCAA TCTAACAGTG | 4320 |
| GACATAGTTC CATAAAGCTT TACTTCAGAC AATTTTTACC TTAGTTTTTA TTTTTTTTAT | 4380 |
| AAGAAGAAAA CTTAGAATTT AGAGTTGCAT TTTATATTTT TATCATACAA ATCGATTATA | 4440 |
| ATTACTCATA GATCTACAAT AGTATTGATC GATTTTAGAA TTATATTTTT AATATTACAA | 4500 |
| TTGCTATATA GTTTACTTTA TGAAAAAAT CTATCTATTT TATGCAAAGA AGATTAGTGC  | 4560 |
| CACCCTGATT TATATGATAA TTGCCTTCCA AATTAACAAC ATATCGAATC ATTAATACTT | 4620 |
| TTCCCCAAC ATTCATTTTT AAATACCCTT AATTGATAAG CTCTCTATTG TCAATGTCCA  | 4680 |
| AGTGCTGCCC TGCTACTAAA ATGCAATATT TATTATAAGC AACTTTCTCT ACTACTGTAT | 4740 |
| TTTTATTATA TATTAAACAA AAAATCAAAA ACCTAATAAT ATATTATTTT AGGTCCCCC  | 4800 |
| AAGCATTCTT GATAACAAAG TTATTTGATA TTGGTTTAAA TTCTTGTAAG TTATTTGTAC | 4860 |
| ATACCATTTA CTTTATTATA AAAATAAAAT TTCCCTTCAA TATATTTCCC CCACTTATCT | 4920 |
| AATTTAATTC TCTGTGTTTT TAAAGCATT TTTGTTTTTC ATGTTTTTTT GATTTTCAAT  | 4980 |
| CATAAATAAC AATAAACTTA TTTATAATAT TGAGAATATT ATCTAATAAA ATATTAAAGA | 5040 |
| TGTAAAAATT AGTTACAAAA AATTGCTG                                    | 5068 |

(2) INFORMATION FOR SEQ ID NO: 26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4663 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

|   |     |
|---|-----|
| TTCTTTATTT TGGCATTCAA CTTTACATTT ACCTTTTTTT ACAGTTTCAA TAGGTTCTGG | 60  |
| TGCATTTTCC ATGTTAAATC CTTATACGGC CTTTATGCTA AATTCTTCTG TGGTTAAAGA | 120 |
| ATTTTTTTCA TTTTTTATTA TTTCTAATAA TTCAAGATGA TATATACCAA ATACTTTATT | 180 |
| GATTCTATT TTCTTTTGGT TATCAAATA TTTTTTGATA ATTGGCTTTA GAATTTCAAT   | 240 |
| ATTTGTTTCT TTTTTTAGTT GTTCAATAAG GATATTGAAA ATATTTTCCT TTAAATTTTG | 300 |
| ATAATTTTGT TGAGAATTTT gCTTTTyycT TTCAATCGmC TTTTCTAATT TACGTTTTAT | 360 |
| GTTGTTTAAA TCGyTATATT TATGmyTTTC AATAATAAAr TGGGGCTTAA ATTTGTAAyT | 420 |



TTCGTATACT TTTTGTAAAT TTrTCTTTAA TTGTTCTGGGr TTATATCCAT TTTGTTyGAA 480  
TTCTTTCTGA GTGTTATTTA rAATTyTyTT TAGTTTCTCT TGCTTTTCTT TAAAGCAAGA 540  
TTTATTTAAA TTTGTGTTTT TTAGCAATTT ATTTTCAACT CTTTTTATGT TTTTGATTAT 600  
TTTAATCATA GTATCTTTAT CAACATTTAA TGTTAATAAA AAyGGAAGAA TTTCTTTACA 660  
TAAsAAGTTr CTTTTTrTTGA ArTACTTTAT TACTTGATAT TTTTCTATTT CTTTAATCTT 720  
TCTTTCTTCT TTTATATTAT TTTTATTACT TAAACACTCC ACTGAATTTA CACTACyATT 780  
TTTAGAAyA TyGTCTTTAA AATGGTTATT AACTCTAGAT TTAAATCTAG AGTTTTTTTCG 840  
yTCTTyAAAG TACTTGTTGA TTTTCTGGTA ACATTCTTTT TTAGGATACT TTAGTTTATA 900  
rTAAATTTCA GTyCCACAAT TTACACCCAT rTGTTGGTAG TAATTAGTTG TrACTTTTA r 960  
TACTTTTTCT AATTTTrTAAA GATAATTTTG CATTGTTCTT AGwGTAGTGG GAGCTAGmCC 1020  
ATTTCTTTTT AGATTTTCrT TAAAGCAGTA GAGTATGTTT TGTTGTGTGT ATTTTTTATC 1080  
TTTTTTGTTT AGAAAATCTA GCGTTGAAGT AAGAGATATT AATTTGTGTT GGTGTTTGTT 1140  
GTGGCAAGTT GGAATTTTTG TTTTATTTGG GAAATTTTGC ATTTTTTTTC TCCGTTTACA 1200  
TGTATTAGTA ATTACTAATA TAGTGCAAAA TTTTGATTTA AAAGTAAATA CTTTTCTAAA 1260  
AAAATATTAA ATTTTAATTA TTAATTTTGT TAAATTAATA TAAAAATTTG TAATTTAGTA 1320  
AAAATATAAA TTGATTTTAA TTCTAAGTTG ACTTATACTA CAAATAGCGT AGTAAAATGT 1380  
TCGCATTTTT TCTACCGTTT ATATGAATTT ACAAGAAATA AAGATATGGG CTTAACTAAG 1440  
TTCTTTAACA AGAGAATTTA GCTAAGCCCG CACTTTTTGT AAAAATTTTT TGTAAGAAG 1500  
TTGGCAAAAA TAGTTTTTGC TATATACTTA TATTTATTAA TACATATAAA CGGAGGAAAA 1560  
AGATGGAAAA TCTTTAAAAC AATAATAATC CACAAGAAAA TATTCAAGCA GAAATTAAAT 1620  
TCTTAAATGA TATGAAAACC CTAATGAAGA ACTTGCCACG TATTGACAAA AGTCTTAAAG 1680  
GGTACGGATA TAAGTATCAG GATTTCAATG ACATATTAGA AGAAATTGAA AACGTTATTG 1740  
AAAAGCATAA TTtGGATCTt AtGTTTAGGC AATTTCCAAC TTTTACACAT GATCCATATG 1800  
GTATAGTTCA TGTATTAGG ACCACATTCT ACAGCACAAG CAGTGGGTAT AGAGAGTCAT 1860  
TTGATACCCC AATTCCTTACA GAAAATTTGC AATGGAACAG TGAAAATGGT TCTAAAAATG 1920  
TAAATACATT GCCACAATTT GTTGGTTCAG CTATTACTTA TTTCAAAAAGA TACGCTTTAG 1980  
TTGCATGTCT TAATATAAAA AGCGAAATGG ATACTGATGC AGCACCTATT TACAATAATT 2040  
ATGAAAACAG AAATTCTATG CCTAACAAAC AAGTTAGTGT TAATCAAAAG TAAGAACAAA 2100  
AAAGAGAACA AAAACAAGAG ATTAATCAAA TTCAGAAAAA TAAyAyTATT CAAAACCAGA 2160

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|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| AAAGAGATAT | TAAGCAAGAA  | TAAAAAAAAG | ATAGGTTTTA | TTATTACAGT  | GTTTTTAAAG  | 2220 |
| AAGCGTTGTC | TAATATAAAA  | GATTGGGTAA | ATAGCCCTAC | AACAAAAGAT  | AATATAAACT  | 2280 |
| CAATTATTCA | AAAAATAAGC  | TTTATTCAGA | ATATAGACCC | CAATAATGTT  | GATGATATCA  | 2340 |
| AGAAAATTGA | ATCTGATTTA  | ATCTCGTATT | TTGAGAAAAA | TAGTGATTTT  | AAAAGTATAA  | 2400 |
| ACTATTGGGC | GGAGATTATA  | AAAAACTATT | TCAAGAAAAA | TAATArATTA  | AAGGATTTAC  | 2460 |
| AAGATTTTGA | AAAGTTTGTG  | gTgTTTAAGA | GGACTGCTTA | TGGTCCTAGC  | CCATTAATAT  | 2520 |
| TCTTTAGTGT | CTTAAAAGAA  | TATGAACGGT | TTGATGAGAT | ATTTGCAGCA  | TAGCAAGATT  | 2580 |
| CTTACATGGT | AAAGCCCCCC  | TATTTGGGGG | CTGCTATATA | TTATGAATTT  | TTGCACGTAC  | 2640 |
| TACTTGCAGT | ATTTTCAAAG  | CCGTCTATGC | CCCCTTTAAG | GGCCTCCTGA  | ACGACCTGCT  | 2700 |
| TGAAGGTATT | TTTATTTTCA  | ACCTTATCTC | CAGTACAAC  | GTCAAGTTCA  | CTCTTTATAT  | 2760 |
| GATCAAGTGC | AGATTTTATT  | TTGCTTTCAT | CATATCCTAA | AAATTTATTA  | AATTCTCCAT  | 2820 |
| CATTGCCCAG | agCTtCTTTT  | AACCAGTCAA | GrTGTGTTTT | TTGrTywTCA  | kwTAGCTTTT  | 2880 |
| CTCTAAGmAG | ktCTTCTTTA  | GATTTwGGTT | TTTCTTGTGT | TGCTTCTTTT  | TGGGTAAAT   | 2940 |
| CACGTTTTTG | TCTACTTTTT  | GTTTGGCTAk | TATTAGTATC | ATTAGAATTA  | CAGCyGTTTA  | 3000 |
| GCATTAGTAA | AAATAAACAA  | AATAATATGT | TGATAATTTT | CATTrrTTATT | CCTTTTTTTTA | 3060 |
| TTATTAATAT | TCACTTAATC  | AATTATTAAT | ACTAAATATT | GGATAAACAA  | TTATTATTTG  | 3120 |
| AATTGATATG | TTTTAAGTGA  | GGTAGTAGCT | ATTTAGAAAT | GAAAGCAAAT  | ATTAGCCCTG  | 3180 |
| CTATCATTGT | GATAGACATT  | GCTCCCATAA | TTCCCAATAC | CCATTTAAGC  | ATTTCTGAAA  | 3240 |
| GAGACATTAA | ATTCTTTTCT  | ACATTGTCTA | TTTTAGCAGT | AAGTTCATTT  | TTAACACTAT  | 3300 |
| CGATCTTAGC | ATTAAGTTCG  | CTTTTAACAC | TATCTATTTT | GACATTTAAA  | TTCTTTTCTA  | 3360 |
| CAGTATCTAT | CTTAGTATCT  | AAACCATCTA | TTTTTAGATT | TAAATTCTTT  | TCTACAGTAT  | 3420 |
| CTATCTTAGT | ATCTAAACCA  | TCTATTTTTA | GATTTAAATT | CTTTTCTACA  | TTGTCTATTT  | 3480 |
| TAGTATTAAG | TTCGCTTTTG  | ACACTATCTA | TTTTAGAAAT | AAGATTATCA  | AATTTTATAT  | 3540 |
| CAAATTGTTT | TTCTAAATTT  | TCTAAATCTC | TATATGTTAG | CTCATTGTGA  | TAATATCTTT  | 3600 |
| TAGATAAATC | TTGTGCTATT  | AATTGTTCCA | TGCCAGTCT  | AATAAATTCT  | TTATATATTT  | 3660 |
| GTTCTTGAGT | TACACTTGCA  | ATATTTGTTG | ACACTGTTTC | CATAAAATTT  | TCCCTTATGG  | 3720 |
| TCATATTATA | TACTATTTTA  | GATTAATTGG | CTTTAGAGAT | TTTTATATGT  | AAAGTAGAAT  | 3780 |
| TTCTTGCAAG | AAAAACCTTT  | TTGTAATTTA | CATTTTTAAC | TTCAGATATC  | AGTTTTAAAT  | 3840 |
| TTTTTACTGT | AGATTTTTTTA | CAAAAACAGT | ATTGCAAAAA | CTCTTAGATT  | ACTTTTTCTT  | 3900 |
| TTCTTTGTAT | ACTACAATAA  | CTCCAAAACC | CACTAAATGG | TTTAGTGATT  | TAACCTCAAG  | 3960 |

AATATTTTCG GCACCTATTT GGTAAATAAA ATTTTCTAAC CCTATCCCTA TAATTTTCGAA 4020  
TAGAGTTTTG TTTTATCTT CTTTTTTTAT AGGAAAGTTA ATGTTATGCT TATGATCATC 4080  
ACCGCCTTGA TCTAAAGCTA TTAAAGTTTT AACTTTTATA ATTCATCTT TTTTAATTTTC 4140  
ATATGAAATT AAATTACCAA TACTGATAAT AACATAAAT AACATTAATA AATTAATTTT 4200  
TTGCACATTG TGTTCCCTAA TAAATAGAAT ATTAACAATA TTATATCTTT ATTAAGATTT 4260  
GCCCTAAAAT ATAAAATTTT ATTAAAATAT AGCAGTAATA AACGACTTTA AGAATATAAA 4320  
TGGAATTTT TGCAAGAAA AAcCTTTTTG TAATTTACAT TTTTAATTGA GAATATTTAT 4380  
TATAGACTTT TTCCGCTATT GGTTTTGTTT TTTTAATGTA CTCTAAATAT ATGTTGATAT 4440  
TATGTTTTAC AGCAGTTATG GaGTGTTCGT CTTTTArTGT TGATAAATCT GGaTAAGGAT 4500  
ATTCTGGaTA ATTTGGaTCA TTAACTTTAA CTTTTGTTTT aGCTAAAAAT GTTACTAGGT 4560  
ACATAACATA CTCTGAAAGT TGTGTTTCAT ATTTAGCTAA AGATTTTAGT GTTTGAATAA 4620  
TTGGAGGTTT TGGCTCTTCT GGTAGGTTAG CAATAGTGGT GCA 4663

(2) INFORMATION FOR SEQ ID NO: 27:

- (i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 4312 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

CAACTTCAGT TTATATTATC AAACGACAAA TAAAACATTA AGTACAATAA CCCAATATTT 60  
CAAAAAGGAT GCACATTTTA ATAAAAAACT AAAGCTGTTC AACTACAATT GTTGCACTTG 120  
AAATTTTTTA TACTAAAATA TAATACAAAT AATTATATTA ACAAATATCG ATTTTTATAA 180  
AAAATAAGTA AAAGTAGTTT AGTTTACCTG AGTATTTAAA TACTTTTAAT TGAGGATGTT 240  
TTATTTTAAA AAGGAGTGTA AAACATATGTC AAAAAGTGTG GACGAAGTAT ATTGCTATTC 300  
TTGTGGCAAG ATTTAAAAAA GATGCTGAGA TTTGTATTTT TTGCGGGGTC AGAAATAAAC 360  
AAACCGAAAA CTACAATAAA CTTATAGTAT TTTTACTATG CTTACTTTTT GGTATTTTAG 420  
GAGTTCACAG ATTTTATGTA GGTAAAATAG AAACGGGCT ATTATAATCA TACCTCTTCA 480  
CTTTTAAATA TTGTTCAATA GCAGTGGGTC TAGGCATATT ACGATTATAC TCATGGCTCC 540  
CCTCGCCAGA ATACTTAATA TCTAGAGAAT ATAACCTCTC TATACATGAA TACAGCCAAC 600  
GAACTATACG CATAAATTTA TTATTGTTCT GCTCATTTTT TACCATAATA AACAACCTAA 660

|            |             |             |             |            |            |      |
|------------|-------------|-------------|-------------|------------|------------|------|
| TCAGGTCTTT | AGATTGCTCA  | GACCCTAAAT  | CTAGAAAGAA  | TTTATTAAAA | TACTCCTCAT | 720  |
| TATAGTCACT | CACTGGGmGT  | ACTACAYCAC  | GATAATTAGG  | ATCTTTTAAA | CTAATTAAAG | 780  |
| TCTTTTTTAT | CTCAACCAAT  | AAACGATGTT  | CAGACGCATA  | TAATTTTAAA | CTAGAAAATA | 840  |
| TGCCTTCAGT | AACAATCTCA  | TCGGAACCCA  | TATCACTACT  | TTCCGAATTC | TCAAAAAAAG | 900  |
| TTTGAACAGC | TTGTTCTCTGA | TTATCAGGCA  | AATAACAACC  | CAATAAAGCC | AATGyTATTA | 960  |
| TACAAACGCC | AACCAAAATC  | CTCATATATG  | CTCCTTACCT  | ACCTTACTAC | AAAAATAATC | 1020 |
| TGTTGTAAAT | ATACAAGTTT  | ATCTAAGCAC  | TATTTTATTA  | AACATTTAAA | GTCCTACCAA | 1080 |
| GATAGATTTT | TCTATAACAA  | GTAAACATAT  | ACCAATTTTA  | CCTTTTCTCA | AGAATTATTA | 1140 |
| AATACTAAAA | TATTAATTTT  | AGCTTTATTA  | TTATCTAGTG  | AACTGCTATT | TCTAAATCAA | 1200 |
| AGATTATAGA | AATAGCAGTT  | CACACAAAAT  | GTGCTTAAAA  | AATTAAAAAA | TAATTTTAAC | 1260 |
| AAGACTAATA | AAAAATTTAC  | TAAAGAATCC  | TTTTAATTAC  | ATTTAAACTT | GTTTGTGTGT | 1320 |
| ATTCTAACAA | GATCGATTAA  | AACTCCAACA  | TATAAAAATC  | CAAATGTAAA | TAGAGAAATA | 1380 |
| GAAAGAAATA | CAATTAATGG  | AAAAATTTTA  | TGAAAAAGAA  | CATATATATT | TTGAATATAT | 1440 |
| TTTTATATAT | ACCATTATTT  | TATTCGTGTT  | TTTTGACTCC  | ACCAAAATCT | TCAAAAATCA | 1500 |
| ACAGTATCAA | AACCGAGGTT  | TTGGATTTTA  | AGATAATTGA  | AGAGGGAAAT | ATTATAAAAT | 1560 |
| ATGATAAAAA | GCCCATTGAA  | GAGCGTAATG  | AAAATACTTG  | TCTTTCTTTT | AAAGAACCCG | 1620 |
| AATTAAATGA | AATAAAAGAG  | GGGGACGTGC  | TTGAATTACT  | TGCAGGTGGT | TATGTTACAT | 1680 |
| GGGCAAAATC | TGGTGACTTA  | AGGGTTTTAA  | AAGATAAAAA  | TAACAATTTA | ATTGAAGATC | 1740 |
| TTAGAGAACT | TAGGTACTCT  | TATATTTTTT  | CACCCATTCTG | ATTCAAAACT | TTTTTTAGTT | 1800 |
| ATAATTATAG | CATTAATGAC  | AATAACTATA  | AAATACTCGG  | CAAAAAGCA  | CCTATAGTTA | 1860 |
| AGATAATAGC | ATTTGAATCA  | ACTAAAGAGT  | TTGAAAAAAA  | ATACGAAATA | AATAGTTTAA | 1920 |
| AACTAAATTC | TGAAGAATCT  | AATATTGATT  | TTGAACAAAA  | TAGAACTGGT | TTAGCCAAAA | 1980 |
| TTAATTTAAA | AGAAACTTCA  | AAAGAACCTA  | ATTACATTTA  | TTCATATAAT | TTTGGAGTTT | 2040 |
| TTGACAATTC | TTTAGCAGAT  | TATTTTAAAGT | TATTTTATAA  | AAAAAATAAC | TGTAACTATA | 2100 |
| TGCCTGCATA | TCTTACTATA  | AAAGATAAAG  | AAACCGATAA  | ATATAAAACC | TACGAAATTA | 2160 |
| TATTAAATCT | AAAGCTATTT  | AACGATACCA  | TTAAATTATT  | AATTAATAAG | TATTCAAATT | 2220 |
| TATCAAAAGA | AAAATTAAAA  | CTTTTTACTG  | ATGAATGATA  | AAAATTGAAT | AAGAAAAGCA | 2280 |
| AAGACAAAAA | TTTATCAATT  | AATGTAAATA  | AATACAATTC  | AAAATTGATA | AAGTTGTGTG | 2340 |
| ACATATTCGG | TATCTCAACT  | TGTCGATTTA  | AAAGTATTGA  | TAGTGAAGTG | CTATTTCTAA | 2400 |
| ACAAAGATTA | TAGAAATGGC  | TTCTTGATATC | TTCCCATGAT  | AGCTTTTTAG | GCCTTTTGTG | 2460 |

|            |            |            |             |             |            |      |
|------------|------------|------------|-------------|-------------|------------|------|
| CAAGAACCTT | TAGTTAAAGA | AACTATTACT | AAACTAGTAA  | TAGCAGTTAA  | ACTATAAAGA | 2520 |
| ACCTATTTTT | CAAGAATAAA | TATTTTTGAT | ATAGATTCAG  | CAATACATAA  | CTCTAAAATA | 2580 |
| CTATTTAAAA | TCAAAATAAA | TTTATTTATC | CTCAAATTCA  | TCTCATTCTA  | ATTTTTATTT | 2640 |
| AAATTCTTAT | TCTATGTTAT | TTAGTTTTAT | GATATCTATC  | TTAACATCTA  | GCTCATAATC | 2700 |
| TTGATTGCTA | CTATATATGT | GATATAATGA | TAAAATATTC  | TAATAATATT  | CTATTTTAGA | 2760 |
| TAGAGGTAAT | ATAATGAATT | TAATAATTAA | AGTGATGTTG  | ATATCCAGTT  | TATTTTCTAG | 2820 |
| CTTTATCTCT | TGTAAATTAT | ATGAAAAGCT | TACAAATAAA  | TCGCAACAAG  | CTTTAGCTAA | 2880 |
| AGCTTTTGTC | TATGATAAAG | ATATAGCTGA | TAATAAAAGT  | ACAAATTCTA  | CTTCTAAACT | 2940 |
| AGATAATAGT | TCTCTAGATT | CTATAAAAGA | CAACAACAGA  | AGTGGTCGCA  | CATCTAGAGC | 3000 |
| TTTAGATGAT | GCTGAAGAAA | TTGGGGTAAA | AGAAAGTAAT  | CAAAACAGAA  | ATGATCAACA | 3060 |
| ACAAAATAAT | GAAAGTAAAG | TAAAAGAAAG | TGAAAAAAC   | AATAGTTCAG  | GTATACAAGC | 3120 |
| AGATGATAGT | GTTTTAGACA | CAGCTCATTC | CGATGCTAGT  | GAAGTAGAAA  | ACAAGAAACA | 3180 |
| TGATACTAGC | AGACAACCTC | AACTACTTAA | TAAGGACTCT  | AGTGAAGCTA  | GAGAAGCTAG | 3240 |
| TAAAATTATA | CAAAAAGCTT | CTACCTCTTT | AGAAGAAGCT  | GAGAAAAGTAA | ATGCAGCTTT | 3300 |
| AAAGGAAACA | AGATCAAAAC | TTGATAAGAT | AAAAAGATTA  | GCTGATAGCG  | CTAAATCTTA | 3360 |
| TTTAAATAAT | GCTAGAAAAA | ATTCTAGAAC | TAATGGTTCT  | ATACTAGAAA  | TATTGCCTAA | 3420 |
| CCTTGATAAA | GCAATTGAAA | AGGCTATTAG | TAGTTATGCC  | TCTCTTAATG  | TTTGCTATAC | 3480 |
| TGATGCAATT | GCTGCTTTAG | CAAAAGCTAA | GAATGATTTT  | GAGCATGCAA  | AAAGAAAAGC | 3540 |
| AAATGATGCT | TTAGAAGAAG | CTTTAAAAGA | TATACCTCAT  | TTTAGGGGGT  | ACAATTATCT | 3600 |
| TTACCATTAC | CGGATAAATA | ATGCTAATGA | TGCAATGGAG  | AGTGCTAAAA  | GTTTGCTAGA | 3660 |
| GGTTGCTAAG | AATAAACAAA | AAGAACTTAA | TGAAAATATG  | ACTAAGACAA  | ATAAGGACTT | 3720 |
| TCAAGAGTTA | AATGATATAT | ATAAAAAATT | GCAAGATATG  | GACTCTAGAT  | AAGTAAAAGT | 3780 |
| AAAATATTAA | AGATAAGAAG | CCAGACAATA | CTTTATGAGG  | TTTAGCTTCT  | TTATTTATAA | 3840 |
| TATTCTTTTT | CTAAACAACA | CTTTATTTTC | TCTTAACTTT  | ATAGTTTGAC  | TTAAAAATC  | 3900 |
| ATTATTTTTT | AAAATATTAC | ATGAATTAAC | TTTAATATCT  | TTATTTTTAT  | ATTATAATTA | 3960 |
| TTATTAATAT | AGATATTATT | TGCCATATAA | GTACATAACA  | AAGTTTTATT  | AAAAAGGAAA | 4020 |
| TATAAATATT | ATGCGATTAT | GTTTAATAAA | AATTTTTTATT | ATACCTAATT  | TAGTATTTAG | 4080 |
| TTCTCTTTTT | TTATTTGAAA | GTTGTTCTGG | TTTTCTATCT  | AAAAAATCTA  | TAGAACAGTT | 4140 |
| TGCATTAGCA | TTAAAAGATC | ATCAAGAAAA | TAAAAATACT  | ACTAATACTT  | CgTAGaTAAA | 4200 |

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AATAGTAAGG AAATTGAATC GCCTAAAGAC GTTACATCAT CAAATAAAAA AACTTATGAT 4260  
CCAATCTTAC AAGTAGGTTT TAAATCCCCC AAAAAAAnC CCCnAAAATT TT 4312

(2) INFORMATION FOR SEQ ID NO: 28:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

nAATTTCGAGC TCGGTCCCCA AAAGTAAAG CAAGCCTTGA TAAGATAAAA AGCTTACTTA 60  
GTACAGCTAA ATCTTATTTA GAGCAGACTA GAAGAGGTGT GGGATCTAGT AAgCTAACTT 120  
AGCCTTATTG CCTAGCctAG AAGAAgCTAT TGCTAAGGTT AAGAGTAATC ATGCTTCTGC 180  
TGATACTCAT TGCAATGATG CTATTGCTGC TTTAAAAaGA GCTAAGAACG ATTTTGAGTA 240  
TGCACAAAGA AAAGCAGATC GGGCTTTAGA AGAGGCATTA AGTAATAGCA ATGCTTCAAG 300  
GCATGAGAGC TACTACTATG CTGGCTACCA CCAATTTATG GCTGATGCTA AAGCTTCAAT 360  
GAGTAGTACT AAAAGTTTGC TAGAGGTTGC TAAGAATAAG CAAAAAGAAC TTAATGAAAA 420  
TATGACTAAG ACAAATAAAG ACTTTCAAGA GTTAAATGAT ATATATAAAA AATTGCAAGA 480  
TATGGACTCT AGATAAGTAA AAGTAAATA TTAAAGACAA GgCCAGACAA TACTTTATGA 540  
GGTTTGGCTT CTTTGTTTAT AATACTCTTT TTCTAAACAA CACTTTATTT TCTCTTAACT 600  
TTATAGTTTG ACTTAAAAAG TCATTATTTT TTAAAtAATT ACATGAATTA CCTTTAATAT 660  
CTTTATTTTT ATATTATAAT TATTATTAAT ATAGATATTA TTTGcyATAT AAGTACATAA 720  
CAAAGTTTTA TTAAAAAGGA AATATAAATA TTATGCGATT ATGTTTAATA AAAATTTTTA 780  
TTATACCTAA TTTAGTATTT AGTTCTCTTT TTTTATTTGA AAGTTGTTCT GGTTTTCTAT 840  
CTAAAAAATC TATAGAACAG TTTGCATTAG CATTAAAAGA TCATCAAGAA AATAAAAATA 900  
CTACTAATAC TTCAGTAGAT AAAAATAGTA AGGAAATTGA ATCTCCTAAA GACGTTACAT 960  
CATCAAATAA AAAAATTAT GATCCAATCT TACAAGTAGG TTCTAATCAA CATATGTCAG 1020  
ATGATCCTGG TGCTAATAAT AAAGAATCCC TACCAAATTC AAGTCCAGCA ATAATACAAA 1080  
ATGACTCGCA TGCTCAAAAT AATGTAAAGA TGGAAGAAAA TAAATCAGCT ACTCCACAAC 1140  
ATGATCCAAT TGAACAAAGT AATTTTAAAA ATAGCCTTAC TACAACAAGT AAAACTCCTG 1200  
CTATTCCTTC AGAAGAAGAA ATTAAAGCTA ACTTAGATGA ATTTGCACAA GAAGAGTATG 1260  
AGCAAACATC TCTTTCAGAA ATTAAAAATG CCACGCAAAT TGTTAATCAT GCTAATCCTG 1320

|            |             |            |            |            |            |      |
|------------|-------------|------------|------------|------------|------------|------|
| AAAACAAATT | AAACAATACA  | CTCCTTGAGT | TTGAAAAAGA | TTATGAAACT | TTATCAAAC  | 1380 |
| TGTTATTCTC | TAATTTAGAC  | GCATCTCCTT | TGAATAGAAA | AATAAAGACT | ATTATGCCTA | 1440 |
| AATTACAAGA | AATGCGTTCT  | TTTATGGAGC | AAGCAACTAA | TTCTTGGGTA | TCTGCTAAAG | 1500 |
| GCATGCTAGA | TGAGGCTAAG  | GATAAACTAG | CAGAATCTAT | TTATAAAAGA | CTATACAATG | 1560 |
| GCAATTCATA | CCGGTTCCGGT | GGCAGTTTTA | ACGGACGTGA | TATGCAACAT | GCAAAAAATT | 1620 |
| TAGCATACAG | AGCTATAGAC  | TTTGCTTCTG | CATGCATTGA | ATATACACAA | AAAGCTATTG | 1680 |
| ATTATCTTCA | ACAGGGAAAT  | TCTTGCAAAA | AAGAAATAGA | AAATATATTC | AAGCTTTAAA | 1740 |
| ACTTCCAGTG | TAGGCTTTAG  | TTTCTTTAAT | ATCTCTACTC | ATATATAATC | CCATCTTTAC | 1800 |
| TAGAAAAGCT | TATATATCGG  | CTTACCTAAA | TTAACTATTT | CACTTCCCTC | TTGCCTTTAC | 1860 |
| AAGCACTACT | CTACTTCTTT  | CAAATTTATA | GTTTGGTTTG | CATTTAGCAT | TCACTATTTT | 1920 |
| TCTATTTTTA | TAAATGTGAT  | ATATTTATTT | TTTAAGAATA | AAGCATAAAT | ATCATCAGAT | 1980 |
| TCTAAGAAGA | GGTACTAAGA  | TAGATGAATT | TAATTGCTAA | ATTATTTATT | TTATCCACTT | 2040 |
| TAGTTTCAAT | TCCAAATATC  | CTCTCTTGTA | ACCTATATGA | TAATCTTGCA | GACAACGCTG | 2100 |
| AGCAGGTAC  | AGACATACTA  | GACAACAACA | AGTCTTTTAA | TACTTTAGGA | AGCAGCAATG | 2160 |
| AGAGTAGAAG | TCGCAGGCCT  | AGAAGTACAA | ATAATGCTTA | TATGAAACAA | AACATAGACA | 2220 |
| AAAATCATTT | AGTTGTTGCA  | GATATGCAAA | ATGATAATAG | TAGCAGCAGT | CTTCCCCAAC | 2280 |
| AAGTTAATAG | TGAATCCAGT  | AAAGCTAATG | AAGATAGTAA | TATTATGAAG | GAAATTGAAT | 2340 |
| CTTCTACAGA | AGAGTGCGCT  | AGACTAAGAA | AAGATTTAGA | AACTATAAAA | CAAATACTTG | 2400 |
| ATAATATAGA | AAGCTTGCTT  | AATACAGCTA | ATTCTTATTT | AGAGAACGCT | AGAAAAGCAC | 2460 |
| CTAAATCTAA | TCAAGATAAT  | CAAACCTTAT | TGCTTAGCCT | GCACCAAGCT | ATTGCTAAGG | 2520 |
| TTAAGAGTAG | TCATACTTCT  | TTTATCATTT | GTTATAATGA | TGCATTTAAT | TCCCTGGGAA | 2580 |
| TAGCTGATAC | TGCCTTTAAA  | GATGCAAAGA | GAAAGGCAGT | TGAGGCATAA | AATGCTTCAA | 2640 |
| AGGAAAATTA | TGAATGGTAT  | AACGGTCATT | ATCATTCCTT | TATAAATGAC | GCTAAAGATG | 2700 |
| CAATGGAGAG | GGCTAAAAGG  | ATGCTAGATA | ACGCTAAGCA | TAAACAAGAA | TATCTTAATT | 2760 |
| CTAATATGTA | TCAGGCAAAT  | GCAGACTTTG | AAGAGCTAAA | TAAAGCATAT | GAAGCTGCTT | 2820 |
| ATTAAATAAT | ACTAATCTTA  | GATAGCTCAG | CTTTAAAGAA | AAAAGCTCTA | TGCTATAAGC | 2880 |
| TTAACATATA | ACTCATATTC  | TTGATTACTA | ATAATAAATG | TAATATAATG | ATATTGTATT | 2940 |
| ACAATAATAC | TCTATTTTTG  | CATAAAGTTA | GCACAATGAA | TTTAATGATT | AAAGTATTAA | 3000 |
| TATTCAGTTT | ATTTTAAAGC  | TTTATCTCTT | GCAAGCTATA | TGAAGCTGTA | GATAAATCTC | 3060 |

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|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| TTATAAAAGA  | CAACAAAAGA | AGTGGTCGTA | AAGCTAGAAG | TATTAGTTAT | AAGGAAGTAA | 3120 |
| ATAATCAAGA  | ACAAAATAAT | GAAAAGAACC | TAAAAGAAGC | AAAAGAAAGT | AAAAAAAACA | 3180 |
| ATAATTTAGG  | TATACAAAAA | GATGGTATTG | TAAACACAAA | CCCTTCCGTT | GCTAGCGATG | 3240 |
| CTAGTGAAAA  | ACATACTAAT | AGACAACCTC | AACAAGTTAA | TAATAACTCT | AGGGAAACTA | 3300 |
| GTGAAGCTAG  | AAACATTATA | CAAGAAATTT | ATACCTCTTT | AGAAGAAGTT | AATAAAATAA | 3360 |
| CTACAGATTT  | AGAAACAATA | AAGTCAAGAC | TTAATAATAT | AAAAAGTAAA | GTTGACAATG | 3420 |
| CTAGTTCTTT  | TTTAAATAAT | GCTAGAAAAT | CTAATAAAGC | TAACCCAACC | TTATTGCCTA | 3480 |
| AACTTGATCA  | AGCTATTTCG | AAAGTTAGTA | GCAGCCATGC | TTATGCTAAC | TCTAATTATT | 3540 |
| CAGATGCAGT  | AAGTGCCTTA | AAAAGTTCTA | AGCACGATTT | TGAGTATGCA | AATAGAAAAG | 3600 |
| CAGAAGATGC  | TTTACAAGAA | GCGTTAAATA | ATAGCAATAC | TCAAGGTTAC | CAATATGCTC | 3660 |
| GATACCACTA  | TTATATGAAT | GATGCTAAAG | AAGCAATGGG | CAGGGCTAAA | GTTAGCCTTA | 3720 |
| AGACTGCTAA  | GCAGAAACAA | GAAAACTTA  | AAGACAAGAT | GGATCAAGCA | AATAAAGAGT | 3780 |
| TTGAAGAGTT  | AAATAAAGCA | CATGAAGCTG | CTTTAAGTAG | TAGAGAATCT | TAGCTGGTGT | 3840 |
| AGCTTCAAAG  | AAGACATGAC | ACTTACTTAT | AAATAAGGAA | GCTTTTGGAT | TTTAACAAAA | 3900 |
| ATAGTCTGGC  | TTTTTTGCAC | ATATAAAACA | ACTCCATTAT | TTCTAAGATA | AATATTTTAA | 3960 |
| GCTCCCTGGT  | AAAGTAATTC | ATTTATCCTA | GATTTACTCT | TCCACTTCTA | TACGTCCCGT | 4020 |
| CCTGCTTAAT  | CATTAATTTT | TAAAATTAAA | TGTTTCTTTC | TAGTTACGCA | CTATATTGTT | 4080 |
| ACTATAACAA  | AAATTGAATC | TTAAAAATTA | ACATATTACT | TTAAAAAAGT | ATACTTATAG | 4140 |
| GAGATGCTTA  | TAAAGCTTAA | CAAACTTATT | TTTACCAATA | TATATATCTA | ATATCTCTTA | 4200 |
| TACTTAGTTG  | CTCAATATCT | AAAGATTTAA | GTGATAAGCT | CTCTTCACTA | AAATCTAATG | 4260 |
| ATTTTTTTTAA | TTCAGACACT | TTAGTTTATG | ATTCTAGCAA | TTATG      |            | 4305 |

(2) INFORMATION FOR SEQ ID NO: 29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

|            |            |            |            |            |            |     |
|------------|------------|------------|------------|------------|------------|-----|
| CGATAGCTTT | AATAAGcAAG | CTCAATTACA | ACAwtTAAaC | CCAGGTGTTT | CACAAAAACA | 60  |
| AGAwATAGAT | AAAAAAACAT | AGAAAAAAGA | AGCCTAGACA | ATTCTTCACA | AGAAAAAGAA | 120 |
| CTCACAAACC | CTGCTTATTC | AACACAAGAA | CATACAAAAA | GTGCTACAAA | CTTAGACTCA | 180 |



|             |            |            |            |            |            |      |
|-------------|------------|------------|------------|------------|------------|------|
| AAAAAAGATG  | CTCTTATTAA | AGAAACTCTT | GAAGCTATAA | AGGAAAAAAT | TAAAGAAGAA | 240  |
| AAGAAAAGCT  | ATTCTAGAAG | AGCAGCAAAG | ACAGAAACAA | CAAGAGCTTG | ATAAGATTAA | 300  |
| AGCACAATAT  | GAGGAAGAGA | AGAGAAAGAG | AGAAGAAGAG | AGGAGAAGAG | AGGAGAAAGA | 360  |
| GAAAAGAAAG  | CAAGACTTCA | AAAATTCATG | CAAACACTTT | CTGACTTAAC | TAATCTTGTT | 420  |
| AAGATGGCTG  | GGCTTGAGGC | TTATAGCATT | TCCCATAAAT | TAAAAGATCT | TGAAAAAGGT | 480  |
| ATTGAAAATT  | ATGAAGACAA | CAATAATTCT | ACTAAAGACA | CACTAAACCA | ATCTCTTAAA | 540  |
| GATGTTATTT  | aTGAGATTAC | AAAGCTTAGT | AGTCTTATAG | AAGCAAAAAG | TAAGATTGAT | 600  |
| CAGCGTAAGA  | AATTGGGTTA | TCAGACAGAA | CAAGAGTTTG | ATGCTAAATT | TATAAACTTA | 660  |
| AAGAACATCA  | AAGATAAGCT | AAAGACTTTA | TGTGGTAAGG | CTAAAGGCCA | TCTTGGTAGC | 720  |
| AATCTTTCTA  | GCGTTACTAT | TGATGGGATT | ACTAAAGAGA | AGGTAGCTCm | AGCTTATCTT | 780  |
| ATCATTA AAC | TAATACACAA | AACATTAATT | TATATGAATG | ATGATAGTAA | AGGTAGCCTT | 840  |
| GCTACTATAC  | TTAATGACTT | AGAAAAGGAT | GCCAAATCAA | TATAACTAGC | ACAACAATAT | 900  |
| CTTCTTATTT  | TAAAAAAGCC | TAAGTACTTA | TATCTTAGGC | TTTTTTTAAA | ATTATCTTGC | 960  |
| CTCTTAGACC  | ATTCTTGATA | ATAATAATAC | TGTTAAGAAT | AAATTAATGC | TAAAATGGAT | 1020 |
| AAGTACACTT  | ACACTAATTA | CTATTTTTGC | AGTAAATATA | AAAACATAGA | ATAAAAATTC | 1080 |
| TTATAACTAA  | AAGAGTATAA | TCTTCTTCAA | GAGAAATATA | TTATCAAGAA | ATTAAATAGA | 1140 |
| CCTTAAAATT  | ATTTTTTCTA | TATATTCAA  | ATTACTTTAA | CTATAATATT | ACCTATAGAG | 1200 |
| AAAATCGTAT  | GGTAGTGGAC | GAATGGTTTT | TCCTAAAAAT | AAAGAAAAAT | AGTAAAAATG | 1260 |
| GAAGAAAAGA  | AAACAAAAAA | AAGATATAAT | TCTGTATAAA | AAAATTCCTT | AAGAATTTTT | 1320 |
| CCATTTTTTA  | GAAAATGGTT | TTCTATAATA | GAAATATTAT | ATTTTTTTCT | CTATGTCTTG | 1380 |
| TAATACCATT  | AATAATATTG | ATCAAAATAT | TAAAACTTTC | TATTGACCAT | ATTTCTGATT | 1440 |
| GAAGTGGAA   | TATAATATAG | TTTGCAGTAT | TTAAAGCGCT | CTTTAAAAGA | AAATTTTGAA | 1500 |
| TCGGAGAAAA  | TGTTTACCAA | AATATAATCA | AAATAGCAAT | TGTATTTGGA | AAGAGATATA | 1560 |
| AATATTCTAC  | ATATTTATTT | TTCATAAAAA | CTTTTTTTTA | AGATAAGATT | AATACCAATG | 1620 |
| CTATGAGATT  | TATTTTTATC | ATTTTAATTT | TCTTTTAATA | AAAAAACTTA | ATAAGTTATC | 1680 |
| AACTTAGGTC  | AACCACAGTA | AAACAATTAA | AATGACATTT | AAAAAGATTG | AAATTTAGTA | 1740 |
| AACAAAAAAA  | AGCCCTTATG | GGCATCCTTT | TCCGGTTTAG | GATAAAGAGA | AATCTTTATC | 1800 |
| TTATACATTA  | AGAATAATAT | ATTATAAAAA | AATAATCAAT | GGATTATTTT | TTTTATTCTT | 1860 |
| CTTTATTTTC  | ATACTCCATC | ACAAGACTAA | ACAAGATATC | CCTTCTATCC | TTAATAATTT | 1920 |

|            |            |            |            |            |            |      |
|------------|------------|------------|------------|------------|------------|------|
| TTTCCAAAAT | AAAAACTGCT | CTTTTGGTAT | CTCTTATGCA | AAAAGAATAA | ACTTCCTTAT | 1980 |
| CTTTTATTAA | AAATTTAACA | GGGGGCATAC | ATGAATTATC | ACAATCTTTT | TTTCTATCTT | 2040 |
| TTTTATGTTT | AGATGATTCT | AATTGATTTT | TCAATATTTT | TCTGTATACA | GATGAAAAAC | 2100 |
| CCKGTTTTTT | AATCTCCTCA | ACAGAAATAT | TTCCCTCTAA | GACTTCTTGA | TAAATTTTTA | 2160 |
| TATATATATA | CGCTTGGCTT | TTATTAATTA | CATAAGACTT | AATAAACTGT | TCGAAACTGT | 2220 |
| CGAACCCGTC | ATATTTATAA | AGATTTTTTT | GTTTGATTTC | GTATAAAATT | TTCAATCTTT | 2280 |
| GAAATTTACT | ATCAATATCT | AATTTTAAAT | TGTATGCTAG | CTATTCTTTT | AATTCATTGT | 2340 |
| AATTTTTTAA | TTCCCTGTTC | TGATTGATAT | CCATTTCTTC | TATTTGAGTT | TCTACCCTTT | 2400 |
| TATACAAAAT | TATGTCTTTT | TTGTTTCTT  | TTTTTTCCAT | TTTTACTCCC | TTTCTTTATT | 2460 |
| TTTAGAAAAA | GACCATTCGT | ACACTAACAC | GATTTTCTCT | ATAAGATAGA | TTACGGTTAA | 2520 |
| AACAATTTTC | ATTATAAAGA | AAAAATATTT | TTCAAAGTTT | CTTTAATTTT | TTGATAATAT | 2580 |
| ATTTCTCTTG | AAGAAGGTTC | GAGTCTTTTA | GTTATAAGAA | CTTTTATACT | ATTATAAAAA | 2640 |
| TGTATCTTGC | CCTTGATATA | TTCTTTGTAT | TCTTTATGAA | TCAGATTTTC | TACTTCTTTA | 2700 |
| AGAATATTTT | TATTTTTTTT | AAATTGGTTT | TCTACAATAG | AAATATTATA | TTTTTTTTCT | 2760 |
| CTATGTTTTG | TAATGCCATT | AATAATATTG | ATCAAAATAT | TAAAACCTTC | TATTGACCAT | 2820 |
| ATTTCTGATT | GAAGTGAAT  | TATAATATAA | TTTGAAGTAT | TTAAAGCACT | CTTTAAAAGC | 2880 |
| AAATTTGAAC | CTGGAGAAGT | GTCTAACAAA | ATATAATCAA | AATCGCAATT | TATTATATTT | 2940 |
| CTATTTAAAT | AATATTCCAA | GAAAGTTTCT | TGATCGGTTT | CTGTATTAAA | TTTTTCTAAC | 3000 |
| ATAGGATGAG | AAGGAATTAT | ATACATATAA | TCATTAATTT | TATTTAAGTA | TTTTTTAAAA | 3060 |
| TAGAAATCTC | CTTTTAACAT | ACTATACACA | TTATATGTTT | CGGCGTCAGG | AATATACTTG | 3120 |
| GTAAAATATG | ATGTTAAAGA | ATTCTGTGGA | TCCAAATCAA | TTAGTAATAT | TTTTTTACCC | 3180 |
| AATTCCTTCA | ACAAATAAGA | AAAAAGTATA | GAAAGTGTGC | TTTTTCCAAC | TCCTCCTTTA | 3240 |
| ACTGATGTGA | GTGCTATAAT | ATCTGGTTTT | TTAATATCCA | TTTATCTAAA | ATTCCTCCAT | 3300 |
| TTGTTAGTTT | TTGTTGTAA  | AATTTATATA | CTTTTCTTTC | CATTTTTTTT | AAATGTTTTA | 3360 |
| AACTATACTT | GTAGTATTTG | GTGTCTTCTT | TTTGTCTTTT | TCTTAGCAAG | GTTCTTAGAG | 3420 |
| ATAATAAGTA | ACACTTAATA | GATCCGGTTT | TAAATATAAA | TTCTATATAA | TATAGTTTTT | 3480 |
| TTATTGCGTA | ATTTCTATTT | TTTCCTATTT | TATGAAGAAA | TGGTTTTTCA | AGTCGATCGT | 3540 |
| ATCCATACCT | TATTCCTAAA | AATTTATTTT | TTCTTCTAT  | TGGGAAAAGA | TTGAAAGAAT | 3600 |
| ACTTATCTTT | ACTATTAAAT | TTTTTAAATT | CTAGTTTCAG | TCTTTGTTTT | TTGCAGTTAT | 3660 |
| TTCTAAAATT | AACTAGATGG | TAGAATATTT | TTGTGTAATA | TATTTTCTTT | CCATTCCTTT | 3720 |

CTTCTATTTT GTTAAAAATA TTTTTTATTG GATTTTCATC AATATTCATT AACGCTTTCT 3780  
 TTTGTTTTAG TTTTCTAAAA ATTGAATTCA AATCTTTTTC CTTATTACAT TAATCAAATA 3840  
 ATTGTTTAAT GTTTTATTAC TTGTAATGTA AATATGTAGC TTGTTTAAAG TAAAATAATT 3900  
 AAAGTTCTAG TTGTAAAAAA GTATTGTGGA TAAGAAAATG GATTTCGTCA ATTTACAAAA 3960  
 GGTATATTAA CTGATTTAGA TAAAAGTCAA AAATATTGTT TTGATTTATA TCAGAATTGG 4020  
 TAGATTGCKA TGTTTTAAAG TAAGTATTTA GAATAGCTTT TACTATTAAG CTTGCrkACA 4080  
 AAATGGTGTT GTCAGCTTTA TTCCAATCTT AATTTTCATTT TATCAAATCA AATTAAGATT 4140  
 GGAATCAAAT GAAACAAAAA AAGTGAATAA GAATTCATCA AAAGAAATTC GCAAATATGT 4200  
 TAAAGGATTA CTTAATATTG TTAAAAATAT TGTGCCTGTT ACAACTAAAA GGTTGAAGAA 4260  
 CTATATTTAA AATTGTGCAG GGTATCTAAT GAA 4293

## (2) INFORMATION FOR SEQ ID NO: 30:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4228 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

TTGGAAAGGG AAAnGCAAAT TCTCAACAAn ATTATCAAAA TTAAAnGGAA AATATTTTCA 60  
 ATATCCTTAT TGAACAACTA AAAAAAGAnA CAAATATTGA AATTCTAAAG CCATTATCAA 120  
 AAAATATTTG AATAACCAAA AGAAAATAGA ATACAATAAA GTATTTGGTA TATATCATCT 180  
 TGAATTATCA GAAATAATAA AAAATGAAAA AAATTCTTTA ACCACAGAAG AATTTAGCAT 240  
 AAAGGnCCGT ATGAGGATTT AACATGGAAA ATGCMCCmGA mCCTATTGAA aCTGTAAAAA 300  
 aGGGTAAATG TAAGGTTGAA TGCCAAAATA AAGAACGyTT TATTTTGATT GAAAAAGAAA 360  
 ATGGTAAAGC AATGTACCAT ACAAAAATAA TGATGGAYAT TTATAAATTT GGAGTTTATG 420  
 AGAAAAACA CGAATTTAGA TTATCATTGA GGGCCTTATT TAAyGGGGAA AGAATTGTTG 480  
 AAGAACTCA TTTrTACCCA ATTAAAGAAG GAGATAAGTT yATTGGTATT TTTTATGGCT 540  
 ACAGAAAACC AATTAAAAAG CCGTTAATAA AGTATCAAAT AAyGGGACT ArAAAAGCAT 600  
 ATGCATTAGC AAGGGCATAT TATATGGAAT TTAGATTTAA AGCAGGAAGT GTTTTTTGCT 660  
 ATTTyAAgGG mTaTATCGAT TATTAGATAA AAAAGAACA AATAATCACT ACAACAAAGT 720  
 TTTATTTAGT ATGTTTACAG ATTTAGAACA ACAAGTATAT AAATTTTATG GGAAaAAATA 780

|            |             |            |            |             |             |      |
|------------|-------------|------------|------------|-------------|-------------|------|
| CCCGGAGCAA | GGACCGTTAA  | TAAAATGGAT | ACTAAAAAAC | CTAAAATAAT  | AACAATAGCG  | 840  |
| TCAATTAAGG | GCGGTGTTGG  | CAAAAGCACA | AGTGCAATAA | TTTGTAGCAAC | GCTATTATCA  | 900  |
| AAAGACAACA | AAGTACTTTT  | AATTGATATG | GATACACAGG | CTTCAGTTAC  | TAGTTATTTT  | 960  |
| TATAAAACAT | TAGTAGAAAAG | TGAATTTGAT | TTACTTGAAA | AAAATATATA  | TGAAGTTTTA  | 1020 |
| AAAGGAAATC | AATTAATAAA  | TGATGCAATT | ATCAATGTTG | ATCATAATTT  | TGATTTGTTG  | 1080 |
| CCAAGTTACT | TAAGCTTGCA  | CACTTTTAGT | GAAGAGCCCT | TGCCTTATAA  | GGAACATAGG  | 1140 |
| TTAAAGGATA | GCTTTAAATA  | TTTAAATTTT | AAATATAATT | TTATTATACT  | TGATACTAAT  | 1200 |
| CCCCATTTAG | ATTCTACGTT  | ATCCAATGCT | TTAGTTGTTA | GTAAACATGT  | TATAGTTCCA  | 1260 |
| ATGACTGCAG | AAAAGTGGAC  | TATTGAGAGT | TTGCAACTAT | TAGAGTTTTT  | TACGGATAAA  | 1320 |
| TTAAAGTTAA | AACCCAAAGT  | ATTTTTATTT | GTAACAAAAT | TTAAAAAAA   | TAAAACTCAT  | 1380 |
| AAAGATTTAT | TAGAAATGTT  | GCAAAAAAAA | GAAAAGTTTT | TGGGGATAAT  | ATCAGAACGT  | 1440 |
| GAGGATTTAA | ATAGGAGAAT  | AGCAAAAAAT | GATAGATTTG | ATTTAGATAA  | AGATTATATA  | 1500 |
| AAGGAGTATG | TAAACGTTTT  | AAATAATTTT | ATTTTGAAAA | TATGAAATTT  | GTCCGATAGT  | 1560 |
| TGGATGAATT | TTTTTAACAA  | AAAGGATAGG | AGATTAATTA | TGGACGTGGG  | AATAAAAATA  | 1620 |
| AACGATAGGG | TAATATCAAA  | AAAGGAAATA | AAAAAAGAAT | TAAGCAATAA  | AGATGAAATA  | 1680 |
| TTAAAGCATT | ATAATTTGTT  | GAAGGAGCGC | TTGAAATCTA | ATTTTCAAAA  | AGAAATCTAT  | 1740 |
| AATAAGATAG | AGAGTATGAA  | AATTTTAAAA | GAAATAAAAG | ATAATGAATA  | CTATAAACTT  | 1800 |
| GATGGTTATA | AAAGTTTTGA  | TGCTTTTATA | AAAGATTATA | AGTTAGCCAA  | AAGTCAAACCT | 1860 |
| TATGAATATT | TGAAGATAGC  | ATCAGCTATA | GAAAATGGCG | TAATAGAAGA  | ACTTTTTTTA  | 1920 |
| TTAGAAAATG | GAATTAAAGA  | AACTATAATC | TTTTTAAGAA | ATAGTAATTC  | AGATACGGTT  | 1980 |
| AAAAAATCAA | AACAAAATCC  | AATAAAACCA | TTAAGATTTT | AACTTAAAAG  | CaAAGAAAGT  | 2040 |
| TATGATTTTT | ACAAAAGTAA  | TGCTAAATTC | ACGGGATTTT | TATTAGATGA  | ACTTTTTTGAA | 2100 |
| AGTCAAAAAG | ATTTGATTAA  | TAAATTCCTA | AGAAGATATA | AGCAATTAAA  | AGGATAGTAA  | 2160 |
| AGGTATTTTA | TGACTAATTT  | AGCGTACAAA | ACGTATAACA | TAGAAAGCAT  | AAAAAATGAG  | 2220 |
| TTTTTAAACA | TAGGATTTAG  | TGAAGAGGCA | ATAGATTTTG | TTTTGCTTCA  | TAATGAAAAT  | 2280 |
| TACAGCTTTG | AGGTTTTTAA  | AGAAAAATTG | ATTAATGTAG | AGAAGAATTT  | GCAAAAAGAT  | 2340 |
| ATATCTAGTT | TGGACATTAA  | GATAGATACT | GTAGAAAAGA | ATTTACAAAA  | GGATATATCT  | 2400 |
| AATTTAGACA | TTAAGATTGA  | TGCCGTGGAA | AAGAATTTAC | AAAAGGATAT  | ATCTAATTTA  | 2460 |
| GACATCAAGA | TTGATAATGT  | AGAAAAGAAT | TTGAAAAAAG | ATATATCTAG  | TTTAGATACT  | 2520 |
| AAGATTGATG | TTGTAGAGAA  | GAATTTAAAT | CTAAAAATAG | ATTTTGTTAGA | AAAGAGTTTA  | 2580 |

AATGCCAAAA TAGATAGTTT AGACGTAAAA ATAGATAATG TAAATAATAA AGTAGATTAT 2640  
ATTAAAAGTG AACTTATTGc CAAGATAGAT AGTGTAGAAA AAGGGTTAAA CGAAAACTT 2700  
AATACaGGAA ATAGGCTAAT ACATTTTATG ATATTAACAG CAGCGATTCT AGGCCAGTT 2760  
TTAAATGCCC TATTTATGAG ATATTTACAA TATATCAAAT AATGATGTAA TGCATAATTT 2820  
GCTTTTTTCA AATAGTTTAT TATCAATTAA AGCTTATTTA AGCTTTTAAA TAAAGTAACT 2880  
TAAATAAGTT CTTTTATTTT AATAAATACA AATTGATTTT AATTCTAAAT TGAAGTGAAT 2940  
TTAATTGTTT AGTGAGTTCA CCTAAAATAA ATTAAGCTAA GCCCGCGGCT TTATTAAGCT 3000  
CTTTAACATG AGAATTTAAT AAAGCTTTTA TTTATTATAA TAATTTCTGT AAAAAGCCTG 3060  
ACAAAAATAG TTTTGTAT ACATATGTAT ATGTATAGCT AAAAAAATAT ATTGCTATCA 3120  
AAAAATCCA ATTAAGTTGG GTTTAGCTAA GTTCTTTAAC AAGAGAATTT ArmTAAGCCC 3180  
tATTTTTTTG TAAAATTTT TGTAaaaaAG TTGGCAAAAA TAGTTTTTGC TATATACTTA 3240  
TTTtTatAAA TAacaaGGAG kAAAAAGATG GAaAATCTTT CAAACAATAA TAATCCACAA 3300  
GAAATATTC AAGGAGAGCT CAAATGATA AGTGTTAATC AACAAAGTTT TACTGGTTGT 3360  
GAAATAATTG AGGAAAAATC TTCTCCCATT AAAGAAAAAA GTAAATTAAG TAAGATAGGT 3420  
AAGAAATTGC CAGGAATAAG CAGTCAAGAA TGTTTTAGAT TTAATCGAAA TATTGATTTT 3480  
AGTGTGCAAA GAAACAAsTT aGATAAATAC GGTGCTAGTG AAGTAGGCAA TATTCTTGTT 3540  
GGAGGTGCTG GrCTkAAAGA TTTAATGATA AACAGAGTGC TTAAATATTT TrrwATGAGy 3600  
CTACCTTTTG AAGAGAATTT rTATATGCTC AAGGGCAAAG ArTTAGAGAA TTTAGGATTT 3660  
AGAGArTTTG TTAAAGCACA yrGTGATAAT ATTrATrTTT TGTATAAAAA CAAATATGCC 3720  
AAyGGwGTTG ATAAGTATAA yTATTTCAAA AAAATGGGyA GTTCAsAAAC TTTAGTGGGC 3780  
TCAACAATTG ATGGCTGGTT TATTAATAAT AATGGCGATT TAGAACTATT AGAGATTAAA 3840  
AGTAGCGACT CTCATTATAT GAGTAGTGCT ATTGCTGAGT ACAATAAAAA TGGCAATTTT 3900  
TTAAGCAGTA AATATTTTTT CAAATATTAT GTACAAGCAC AAATGCAGCT AGCATGCACT 3960  
GGGCTTGAGT ATTGTAATTT GTTCTTTTTA ATAGATGCTG CACCAATTAA CTGTAAGATT 4020  
AAAAGAGATG AGGCCTTAAT ATCAAAAGTG TTTGAATTTG TTAATAAATG TGAATTAGAA 4080  
ATTATAAATT TAAAAAAGA TATTTATAGT AACTATAGAG ACGATTACTT AATGGCACAT 4140  
AATTTTAATG AGGATACGTT TATAAACTT GTTGAAGATT TAGTAGAAAG GAGTGATTTT 4200  
TATAGTTCTG GAGTTGAGTT TGATTGGG 4228

(2) INFORMATION FOR SEQ ID NO: 31:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

|   |      |
|---|------|
| TTATTTTGAA TTAAACTAA TGTTTAGTAA TTCAAATATA TAAGGAGAGC ACATTTTGAA  | 60   |
| AAACCTAAAT TAAATATTAT TAAGCTTAAC TTTATTACAG CAATACTGAA TTCAATTTTC | 120  |
| ATATCATTTT TACCTATTGG AAAGGTCGAT CCAAACCCG ATATCAATAC TAATCCAGAA  | 180  |
| AATATCCAAA ATTAAAGTTT AGAGAAGCTT TTCGCATAAA TATTTTATAA TTTTtaggAT | 240  |
| TATATCGGCA ACTATGTTAA ATATTACTCG AATGGCTGTA CTTTGATATT AAAATCTGTT | 300  |
| ATTTGTGGAG TTGGTATFTC TGATTTTTAA ATAATTTcAG GAGTAACTAT TTCTTTGAAA | 360  |
| ATTTcAGGAA TTGTTGTTTT AGGAATGATC ACTTTTTcAG TAATTTcAGA AATAATTTCA | 420  |
| CCAAGGCAAT TTTATTCTTT GCAAGAATTT TGTTcACAAT TGTACAACAT AATCAAAAAA | 480  |
| TTAAAAAAGT AAAATGCAGT ATGAAAAGT ATAGTGAGAT TTCTTATTCA AATAGGAACA  | 540  |
| TCTACAATTC TATCCCCAAA GTAAAATAGG AAAGAGTTTG TTAGAAAGAA AACCGTATTA | 600  |
| ATTTCTTGGT TAAGTTATGT AATAGTAATG TATTGTTATT AATTTATTAT ATAAAATTTA | 660  |
| GGCATAAAAA ATAGGAGGTA TCATCCAAGC AACTTTTAGG TGCTAATGAG AAAATAAAAA | 720  |
| TTTTTTAAGT GGAGAATAAA GAGTAATCTT TGGGCAAATC GAACAAAGAT TGCTTTACTG | 780  |
| TCTTATTTAA CTATAGTAAG TTTATCTCTA AAATAAGATT ATCCAAGCTT ATTTTAAGCT | 840  |
| TTTATTCATA TTTCTCAGCA AAATCAATTT AGAAATCTTT TAATTTTTAA TTCTTGtATA | 900  |
| ATGCTTACAA AAAATCATAA GTATAGAATC CGCACAAATA CCAATGTTT TTTTATTCAT  | 960  |
| CATAACTTGA TCCGTAAATT TACGAACACC AATAATACGG TATCGTAAAA TAAATAACTT | 1020 |
| TATCAGCCTC AATAATAACT AAGAATACAA ACTTGGCATT GCTAGTAAAT TTTAGCAAGA | 1080 |
| TGCTAAAGGA TGATGTGCCT GGTtATAAGG ACAACCAACA ATACTTTAGA GAATGCAATT | 1140 |
| GTAAAGTATA AGGAAGCCAT AAGTAAGACT ATTTGGGGCT AAGAGTCAAA TTAAATAAA  | 1200 |
| GACAGAAAC AATAAGTAAG AGAAAAAGAA TGAAAGCTTA ACTCATTTAA GAATAGTTAG  | 1260 |
| AGGTGTTCTT TCTGTTGTTA AAAAACCACt GAAACAGCTT TGCCTAGCTT GCGCTGATTT | 1320 |
| TATTGCTACT GCTGCCAGTC TATCTTGtAG TGAATTTAGG CAACTGCTG AAGATTTTAG  | 1380 |
| TGTTTGCTGC TAAGGAGTAT GCTAATGGAA AAGGAAAAAT AATGATTTTG ATGTTATTAG | 1440 |
| GTGCTATTTc TAGTATGGCC TATAATGAAT TTGAATAGGA GGTTTCAAAG AGTAAAGACT | 1500 |

|            |            |            |            |            |             |      |
|------------|------------|------------|------------|------------|-------------|------|
| TTTGCTAATA | ATGAAGGGGG | CAAATTAAAC | AAGATGACTG | CTACTATTGA | TAAGTTATGT  | 1560 |
| GCTGTTTATA | AAAAAGTTAT | ATCTTAAATA | CCTTAAGTTT | TTGGCCAACT | CTTTTCTCTC  | 1620 |
| TTTAAACAC  | TTTGCCTCTA | TGCTTGCTTT | ATAATAAAAT | AATACTTGGA | TAATGAATAA  | 1680 |
| CTAAAAAAT  | AAGGAGGTAT | TAATGAAAAG | GAAAAGCAAT | ATATGTATTT | CACTTCTAGT  | 1740 |
| CACAATATTA | TTTGTGTCTT | GCAAGTTTTT | TGGAAATAAA | AGCGCAAGTA | AAGAAAAAGA  | 1800 |
| AGAAACTTCT | TTTTCTGATA | CTGCTAGCAA | GATTAGTAAG | TCGGGAACAG | CTGCTTCTTC  | 1860 |
| AGACAAACAA | GAAAAAATA  | CAAGTGATGT | TACAGGTGAC | GCCAAAAAGC | ATACTAGTAG  | 1920 |
| CCCTTACATG | CTTGCTGATG | CCCTTATTGT | TAGTGATACT | ACTAATAGAG | ATAGAGATAA  | 1980 |
| GCAAGAAAAT | AAAGATAAAT | TAAATGAAGA | AGATAAAAAA | AAGCTTAATG | CTTTTTTTAG  | 2040 |
| CACAACTAAA | ACATATCAAT | CTAGCCTAGA | TTCCATTTAT | AACAAATATA | CAGGCTATTA  | 2100 |
| TAATACCAT  | GATACCTATG | GCAGCTGTGA | TACGTATCGC | ATTGAGTGTT | TTAGTGTAGG  | 2160 |
| ACCTTCTGAA | AAACGTAAAC | AAGCTCTTGC | TGATCTAGAG | AAGTTAAAAC | TAGACGAAAA  | 2220 |
| GTACACTCAG | CTTAGCACAA | TGTTAAAGAG | TGCTGTGCCT | AGTTATTACA | AAAAAAATTT  | 2280 |
| AGATGATTCT | ATTGCACAGT | ATAAGGAAGC | CATAAAGCAG | GCTATTGAAG | CTGAAAGTAA  | 2340 |
| AATAGAGACA | GTAAAAGACT | ATGCAACAGC | TCAAAGTGCT | GCCGATGACG | AAAAGAAAAG  | 2400 |
| AAATATAGAT | AATTTAAAAA | TAGTTAGAGA | TGTTCTTCTT | ATTATTAAAA | AACTATTGA   | 2460 |
| GAAAGCCAGC | CGATCTTATG | CTGATGCTTT | TGCTATTGCA | ACATCTAGCT | TATCTTGTAG  | 2520 |
| CGAATTTAAG | CAAGCTGTTA | AAGAGTTTAA | TGATGCTGCT | AAACAATATG | CTAATGGAAA  | 2580 |
| TAAAGGAGAC | AATGCTGTCA | ATGTTATTGT | AGGCACTATT | TCTAGTATGC | CTTATGTCAA  | 2640 |
| ATTTAAAGAT | GAGTTTGCAA | GAGCAAAAAT | GTTTGCTCGT | AATTATAGAG | GAGACGAGGT  | 2700 |
| AGACAAGATG | ATAAGAGCTA | TCGACAAGCT | GTGTGATGTT | TATAAAAAAG | TTGCGCTTTA  | 2760 |
| GAATAAAATA | AAATTAGGGT | TTTACACCAA | AACTATGT   | CTGTAATATT | CAATATAATT  | 2820 |
| TTCTTTATCT | ATGATAGAAG | AGTCTTTAAA | CAAAACATTA | ATCTTATAAA | ATTCTTCTCT  | 2880 |
| CCTCTCACAT | ACTTTCACAT | CCTATTTAAA | ATTAATACTA | ATGCCTCCCA | AGAAGCCCAT  | 2940 |
| TATTGCCATA | TGAATTTAAC | TAAAATACTA | TCGAAAAAGA | AGATATGAGC | TACAAAACCTC | 3000 |
| TTTAAAAAGC | CCCATATCCA | AACTAATCAA | TTTAATCACT | TTATGTCTGT | CTTACTTAAT  | 3060 |
| AAATCACTAG | AATCAACTTA | TCAAAAGTAC | TTTCTTACCC | CCCCCAATCA | TCGTAGTTAT  | 3120 |
| CTTTTAAAT  | CATATATGAT | ATATGTATTA | TTATCAGCTT | ATCTTCCCTA | TATATTAGGT  | 3180 |
| AAAAAATAGA | AACAAACAAC | CGTGCATTTG | CGACTCAATA | AAACACCTAT | CAAAAACCAA  | 3240 |

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|  |      |
|--|------|
| TATTCTACTT TCATTATACA GAATAAAGCA ATATAATATA TTTAATATAT ATTATCGCTT    | 3300 |
| AAATTTATTT AAACCTTAATA AATAAATTAA GGGGAGAATA AAAAAAGAAT GATAAAAGGC   | 3360 |
| AATACGTTTA TTTTAATATT AGTAACAACA ATGTTTGTAT CATGCAAATT CTATGGAAGT    | 3420 |
| GATGATACAA ATAAAAAAAA TACATCTCTA AATGCTGATA CTAGAGAGAT TGACAATATA    | 3480 |
| GGTTCAGTCA TTTTAGAACA AGACGGAAAC AAAAAAGGTG ATACTACTGC TAGTAAAGTT    | 3540 |
| GCTTTGGATC AAGTTACAGA ACATGCTAAT AGTGAACCTA TGCTTAATGA TGACCCTGAT    | 3600 |
| TCTAGTATTA GTAAATACAA CCAAGAAAAT ACTACTGGCA AATTAACCGA AGAAGATATG    | 3660 |
| GATAAGCTTA AGGCTTTTTT TGTA AAAA ACT ATAACATATC AAGGGATACT CAATTCTATT | 3720 |
| TATAACAAAT ATACACGCTC TTATAATACC ATTGCAACTT ATTCTGGTTG TGCCAATTAT    | 3780 |
| AATAGTATTG GATGTTTTAG CGAGGGCCCT TCTGCAAGGC GTAGTCAAGC CCTTAACGAC    | 3840 |
| CTAGAAAAAA ATAACTAGA TGAAGAGTAT ACTAACTTA ACCAAATGCT AAAGGAGACT      | 3900 |
| ACACAAGATT ATTGCCCCAA AGCTCTAGAC AATGCAATTG AGGAATACAA GAGGGCTATA    | 3960 |
| ACAATAGCTA AAGAAGCTGA AGATAAAATA AAAAAATAA CAAGCTTTAC AATAGATGAA     | 4020 |
| GGCAATAATA ATGAGGAAAG AAAAGAAAAT GTAGATAACT TAAAAAAGT TAACAATATT     | 4080 |
| CTTTCTATTT CCGAAAAGAC CATAGAAACA GCTAGTGTGG CTTATGCCAA TGCTTTT       | 4137 |

(2) INFORMATION FOR SEQ ID NO: 32:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3760 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

|   |     |
|---|-----|
| ACTTTTTCAT TTTTGAAGCT TTATATATTt TTATaCAGTG ATTAATTCTA AATTTTCTT  | 60  |
| TATTTyaTAA AATTTTGTAT AAATCAATAA TCTACAGCCA ATATTAAAAT CAAAATATAA | 120 |
| TAACAAATCT ACAAGTAGAT AAGATGCCTT CCAATCTTT TTTACTCGTA GACTTGATTA  | 180 |
| AAAAAAAGA ATAAATTAAA TGCAATTAAT AATTAAAATT ATAATAAAAA AAATTATAAA  | 240 |
| ATAATATCAA AGTACAAATT TTATATTTTA GTCGTATAAT TTTGATTCTA AACTATCCTT | 300 |
| TATATGATAA AATTTTGTAT AAATCAATAT AGATTCGTCA TAAACAATAT TTATATTTAA | 360 |
| ATTATCAACA TTATTGCTAC ACGACAAATA TAAAAGCTTA AAAAAATTTA TATCACTAAT | 420 |
| ACTCAAATAG AATATGAAAA CCTCATTTTC AAAACATTA TTTCTTAAAT TTGTCTTAAT  | 480 |
| TTCAAAAAT AATTTAATTA ATTCTTTAGC TCTTTTAGAT CCTAAACTAA ACAAGAACTC  | 540 |



|   |      |
|---|------|
| ATTCAAAATG TCATGACTTT TAATTGGAAA CAATAAAGAT AAAGGGTTTA TATCGGTTTC | 600  |
| CATATCTGAT AGTAACTTAT AAAACTCATA AAGACTTTTT TTTATGTCCT TTAAAGTAAT | 660  |
| AATTTCAATG GCATTTAGTT CTAAATAAGT GTATATGTTT TCCACCATAT ATTTTTCATA | 720  |
| AAAAAACATT TCCATTTTAA ATGGAATACA TTATATTTCT TTTTAAAGAT ATTTTAAACG | 780  |
| TATGCTTTTA ATTTTACATT TATTATTAAT GAATTTATTT GAGCTAGCTT TTATATTTGC | 840  |
| TAGTAATAAA AAAGGAAGCG AAGTAGATAC TATGATTACA GCTATTGATA AGTTAATTAC | 900  |
| TATTTATAAG AAAGTCAAGT CCTAAGGTTT AAAATAAGAG AAATATATAT ATAAAGAATT | 960  |
| TTTTGTGCTA TATTTATTTA CAACAAAAAT GAAGATTAAA TTTTAACTA TAAGTTTAGC  | 1020 |
| TATCTTGcTA GCTAACTTGA TTATTATTTT ATTAAACTTG GTTTTATTTA TTGTAAATAC | 1080 |
| ATCTACTAGT AGCCCTTATA TTGTTCCCTC AGAAAAGATT GATATTTTAC ATCAAAGTAA | 1140 |
| TACAGGTGCG GTTAAATTTA AGATTTCTCT AATAAATCAT TTGGGCTCTG TTGCTATTGT | 1200 |
| TTATGATTAC AATTCTGCTA GTGAAAGATT TTATTTAGAT TTTGAGATTG TAACAAACAA | 1260 |
| GAAACCTTTT AATCTTTTAG ATGTTTCTCT TAATGATGTT GTTATTAAAC CTGAGGTTTT | 1320 |
| ACTTGCATCC AATAGCAAAT TAAGATTCGA AGAGGGTCAG TATGTTTTGA ATTTTGACGA | 1380 |
| CTCTATAGAA AAAACAGGAT TTTTGTGTA CTTAGACCTT AGAAATGAAT ATTTAAATCT  | 1440 |
| AGCAGAAATT GCAAGAATCT CTGGCATTAA TTTTCGTGTT AAATGCATAG AAAGAGAAAC | 1500 |
| AGGTGTTTTA CGAAATGTTT TGTTCAAATT AAGTGTCGAA AAGGGTAAAA AATCCTTTGA | 1560 |
| CCTTATTGAA AGATATAACA ATAATATTGG CAAGGTTTCT TGATTATTTG ATTTTGTGGG | 1620 |
| GAAAAAAAGT TTGATTTAAG GAAATATGAG GAATATTAGC AATtGTATCA AATATATTAT | 1680 |
| ATTAACAATG CTTATTGGAT TATTAATTTT TTGTTGTGCA ACCTTTGTTT GGTGATTGG  | 1740 |
| AATTTTTTAT TCAAATAACT TTAAAGAAGA GCGGAATTAT TCAATAAGCC CAATAGATAG | 1800 |
| TGTTATTATG CGTAAATGTT ATTTTAAAGA ATTTAAGTCT GGACTIONTA AAAGCGTATT | 1860 |
| CTTTAAGAAA TTAGATGTAA ATGTTAACTC TAAAAATTTT AAGGAGCTAA ATAAGGTAGA | 1920 |
| TAAACAAAAT CTGCTAAATT CTTATCCATC TTATCATATG GAGTTTGTCG TAGTTGATAA | 1980 |
| TGGATTTTTA ATGAATTTTA AAAATGTTAT TTTTAATGGT ATAGATGATG CTAAATTATA | 2040 |
| CGATCAACGT GATATGGTTT ACGGAGGATT TAGATACTCA AAAGAGGCTT ATTTCCAAAT | 2100 |
| TATTGGCAAT TATGATGTTA AATTAAATAA AATGAAACAA TATACTCCAG CAATTGTAGT | 2160 |
| AAATGTTTTT AAAATTAACA TTAATGATGC TTTATTTAAC TCGTTATTAA AGCAAAAAAC | 2220 |
| TTTAAAGTT ACTTTGATTT CCCATAATAA TAAAGAGTAT ATTTTACAAA CTAATAATTT  | 2280 |

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|--|------|
| CTTATCAAAG TATAATTTTC AAACACCAGA AAAGGAGAAT AGTTCTTACT AAGAAATTAA  | 2340 |
| AGAATTTTAT TTAAAGTTTA ATAATGGGTT GATCATGTCT TATGGTCAGC AAACCAAATA  | 2400 |
| TGCCTCCCCT TTATCAGAGC AATTATTCTC TATACCCCCT CTTTATATA CTTTCTATAT   | 2460 |
| AATAAATATA GTTTCATAAA ACAATTTTTA TGTAACAAAAA GCTAACTGCC TTATTATTGC | 2520 |
| TATATATTTA TAATATTATA TTATATAAAA AGATAGGTCT GAAACAATAT GGATAAATTT  | 2580 |
| TTAACATCTA ATCATCCTCC AATAATAATC TTTACTATTG GGGCTTTGTG TGCAACCGTG  | 2640 |
| CTAATATGCT TAATTATAAT ATTTATTATA CATGGCATAA TAAATCCCAT TCTTATAAAG  | 2700 |
| AAATTCAAAT CCATAAACAA CAGTCTACAA AAAATAACAA AAGAATTTGA AGAGATGAAA  | 2760 |
| AAAAGAGTAG GACAATTAGA ATCCATATCA AAAAAATTAG AGCTAAATAA TAAACCTGCA  | 2820 |
| AAAAAACCTA TAAGCTTATA TGGACTAAAA AAATCCCAA TCTAATGTAG ATTTACAACC   | 2880 |
| GATTATTTTC ATTTTTTTGA TTTAATAACA AATAATCAAT AAAAATAATT TACAAATAAT  | 2940 |
| TACATACAAA AAGCTACACG CAACAAGGCA AGGCAAAATA AATTATTAAA AAGCGAGCAA  | 3000 |
| CAATATCAAG CACCCCTTCC CCTATACTA TTTTAAAAA AATTAAAAAG GTTTAACGGT    | 3060 |
| ATACTTATAA ACCTTTTTTA TAAAAACAA AATTTATTAT AAACCTCAAT AACAGTAAAT   | 3120 |
| GTTTAAATA CATATAACTC ATTTTAGCCC ATCAAAAGAC ATTTTCAACT TTATTTTACA   | 3180 |
| ATTTTTTAAT AAACCTCTACA TTGGGTTGGA CAATGGAATC TAAAAATTCT TTATTCTTTA | 3240 |
| ATATTTTATA CTTTTCATAG TATGAAAAGT ATGAAAAAAA TGATTAATAC TACAATACAT  | 3300 |
| TCCTAAATTT TATTTGTTTT TTTTATGATA TAACAAAAAA ATGTTTTATA AATTTCCAAT  | 3360 |
| TCGGATATAA AAATTACCAA AGAGAAATTT TTATGAAAAA AGACATATTA TATACTTTGA  | 3420 |
| ACGTATTTTT ATATATATCA TTAATTTATT CGTGTTCCTG GATGCCATTA AAATCTTCAA  | 3480 |
| AAATCATTA AATTAAGAAG TGTTAAACT AATGAAAAAT CCATTAATTT TAAGGAAGGT    | 3540 |
| TTACAAAACA TAAAAGATTT CTCCTGCAA AGTTATTAC CTACATATAC TTAATAGTAA    | 3600 |
| TAGCTTAAAA GCGGATATAA ATATTATTGT AAGAAGAAAG TCGACAATTT TGATACTACT  | 3660 |
| TAAAGGTTTG GaTTATTCTA TTTCTGcTTT GTTTGTTTTA AAGCGATTTA TGGTTTGAGG  | 3720 |
| CTAATGTTGA TTTTTTTACC TTTTTTTATT TAAATTTATT                        | 3760 |

## (2) INFORMATION FOR SEQ ID NO: 33:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3653 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

|  |      |
|--|------|
| CTTGnGTGCC TGCAGGTCGA CTCTAGAGGA TCCCCGTGTT CATAAAATCC TCTCCTTGAA  | 60   |
| GGTGTACTTT TTAAATTAAG TAAAAGTAAT AAAAATAGAT AAAAATAGTA ATTTATATTG  | 120  |
| TACCAAAAAC GAAAAATTTT AGTCAAATTT TGTGAGTTCT CATTGCATGA GAAATTTGGG  | 180  |
| TTGTAGGGAG GCTGTTATAA ATAGAATGGG CATTTTCTGA GGGTGTGCGC TAAGAAAGAC  | 240  |
| TACATACTTT AGCTAATATA TAGCAAAGAC TTTGAAATTT AATTTGTATG TGTTTTATAG  | 300  |
| TCTTTTGTA TGAAGTAGTC ATTTGCAATG GAGAGATTTT GGGGAGTTGT TTAAATTTAC   | 360  |
| ATTTGCGTTT TGTTAAAATG TAACAGCTGA ATGTAACAAA ATTATATATT TAAATCCTTG  | 420  |
| AAATATTGCA TTTATTATGT ATTGTGGTAT GATTAGGACT TATGGAGAAA TTTATGAATA  | 480  |
| AGAAAATGAA AATGTTTATT ATTTGTGCTG TTTTATACT TATAGGTGCT TGCAAGATTC   | 540  |
| ATACTTCATA TGATGAGCAA AGCAATGGAG AGGTAAAGGT CAAAAAATA GAATTCTCTG   | 600  |
| AATTTACTGT AAAAATTAAA AATAAGAATA ATAGTAATAA CTGGGCAGAC TTAGGAGATT  | 660  |
| TAGTTGTAAG AAAAGAAAAA GATGGTATTG AAACGGGTTT AAACGCTGGG GGACATTCGG  | 720  |
| CTACATTCTT TTCATTAGAA GAGGAAGAAA TTAATAACTT TATAAAAGCA ATGACTGAAG  | 780  |
| GTGGATCATT TAAAACTAGT TTGTATTATG GATATAATGA CGAAGAAAGT GATAAAAATG  | 840  |
| TCATTAAGAA TAAAGAGATA AAAACAAAGA TAGAAAAAAT TAATGATACT GAATATATTA  | 900  |
| CATTTTTAGG AGATAAAATT AATAACAGTG CGGGGGGAGA CAAATAGCT GAATATGCAA   | 960  |
| TATCACTAGA AGAGCTTAAA AGAAATTTAA AATAGAAGTT AGAAATATAG GAGAGAGCGT  | 1020 |
| ATATGAATAA AAAACAATT ATTATTTGTG CAGTTTTTGC GCTGATACTT TCTTGTAAGA   | 1080 |
| ATTATGCAAT TAAAGATTTA GAACAAAATG CAAAAGGGAA AATTAAAGGA TTTATAGATA  | 1140 |
| AGGCTTTGGA TCCAGCAAAA GATAAAATTA CTTCAAGTAG TTCAAAGTA GATGAATTAG   | 1200 |
| CAAGAAAATT ACAAGAAGAA GATAAAATAA AGGGTGTAGA AGAAAACAAT AAAGATGAAT  | 1260 |
| TAATGCAGGG TGATGATCCT AATAGTGGTG TAATAAATTC GTCACCAGTA TTGCCAGAAA  | 1320 |
| ATAGTCAAGA TAATACACCA ATATTAAAAG CAGCGGAACA AAGTGATGGT CAACAAGAAG  | 1380 |
| AGAAAGTGAA AAAAGTAGAA GAATCCGAAG CTAAAGTTGA GGGAAAAGAA GAAAAACAAG  | 1440 |
| AGAATACAGA AGAACGAAAC AAACAAGAAT TAGCTAAACA AGAAGAAGAA CAACAAAAAC  | 1500 |
| GAAAAGCAGA ACAAGAAAAA CAAAAAGAG AAGAAGAGCA AGAAAGACAA AAAAGAGAAG   | 1560 |
| AAGAGCAAGA AAGAAAAGCT AAGGCAGAAA AAGAAGCTAA AGAAAAAGCA GAAAGACAAA  | 1620 |
| AAACAAGAAGA ACAACAAAAA CGAAAAGCAG AAAAAGAAAG AGAAGAACAA CGAAAAGAGG | 1680 |

|             |            |            |            |             |            |      |
|-------------|------------|------------|------------|-------------|------------|------|
| CAGAAAAAAG  | GCAaGTTGAT | AACGAAATTA | GAACACTTAC | AGGCAAAATA  | GATGAAATCA | 1740 |
| ATAGAAATAT  | TGATGTTATA | AAAGAGCAAA | CTAGTGTGGG | GGCACAAGGT  | GTTATAGATA | 1800 |
| GAATTACAGG  | GCCTGTATAT | GATGATTTTA | CTGATGGGAA | TAAAGCTATA  | TACAAAACTT | 1860 |
| GGGGGGATTT  | GGAAGATGAT | AACGACGAAG | GATTAGGAAA | GCTATTAAAA  | GAATTGAGTG | 1920 |
| ATACTAGACA  | TAATTTAAGA | ACCAAATTAA | ATGAGGGTAA | TAAAGCATAT  | ATTATTGATA | 1980 |
| CTAGAAGCAC  | TGAACCCCAA | TTAAAAGAAA | ATGTAAGTGT | TAGCGAAATT  | AAATCAGACT | 2040 |
| TAGATGAACT  | AAAATCAAAA | TTAGAAGAAG | TTAAGAATA  | TCTTGAAGAT  | AAAGATAATT | 2100 |
| TTGAAGAAAT  | TAAAGAATAC | GTTGCTGGTA | GTGAGGATAA | TTATGATGAA  | GAAGATTAAT | 2160 |
| TTTAGATATA  | ACTAAATTTT | GTATACACAA | AATAACAAC  | AGTAAAAAAA  | TGACTAGTTG | 2220 |
| TTATTTTTTT  | GTAGATTTCA | TTGTTATAAA | TATAGAAATG | TTTTCTATCA  | AACTTTTCAT | 2280 |
| TCAAAAAATG  | CCAAAAACTA | TTGCTCAAAA | TATTGTTTAT | TTATATACTC  | TCTAGAGTTA | 2340 |
| TGATGAATAT  | AAATGAGATT | TCAGATTTTT | ATGATAATTT | ATATAAGAAA  | ACAAAAAAG  | 2400 |
| AAATAGATAA  | ACTTATAAAC | AAGCTCTATT | TAAGTAGCCA | AATAACTCTA  | AAGCAAAAAA | 2460 |
| GACAAATATA  | CAGTGCTGTT | GAAAAAATGC | AAAAGTACGT | AATAAAAAACC | GGAAAAAGTG | 2520 |
| TTTTTTTTAGA | ATCGGAAAAA | GAATTTGTTA | AAGACACTTT | GAAAAGAAAA  | AATCTAACAA | 2580 |
| AAAAATTTCA  | AAGTTTCAAA | GTTGATTTTA | GCTACAAGGA | AGGAATGCTA  | GAAAAATGTT | 2640 |
| TAGAAAGATT  | AGGAGAAGAT | AAATCTATCG | AATTTTTGAT | TTTTGTTTGC  | CAAATTCCTA | 2700 |
| ATGGGATAAG  | AGAAAAAGTA | TCAGAATTAG | ACTTTCAAAT | AGATGCGATT  | AAAGAATTTA | 2760 |
| GAGATATTTT  | ATTTTTGAGT | ATACACTATT | ATGATAAAAG | ACTTTTCACC  | AGTAAGAATC | 2820 |
| TTATGAATGA  | AATGAAATAC | TTTTTCGAAA | AAGTAGAGTT | AATTTATAGT  | TATATGCAAT | 2880 |
| AAATTAGTGA  | ACTGCTATTT | CTAAATCAAA | AATTATAGAA | ATAGCAGCGA  | ACTAAATCAA | 2940 |
| TAAAAGCTAA  | CAGATATTCC | CTGTAAATA  | TCAAGAAGTT | ATCAGTTTAT  | GTTAACAATT | 3000 |
| AACAAATTGC  | TTTACTATTT | AGAGTAACAA | ATTGTTACTT | TTGTTATTTT  | AGAGGATTTT | 3060 |
| TTTGAAAAAA  | GTTAAAAGAT | CTTTTGATGA | TTATGTTGCA | TATTTTAGAG  | AAGGATCGTT | 3120 |
| AAGTGATGTA  | GAAATAGCGA | AGAAATTAGG | AGTTTCTAAA | GTAAATGTGT  | GGAGAATGAG | 3180 |
| ACAAAAGTGG  | GAAAGTGGAG | AAAGTGTGT  | TAACGGGGAC | TCTAGAGTAA  | CAATTAGTGA | 3240 |
| AGATACTTTT  | GAACACCTTT | TGTCGCAAAC | CTTTAGATCA | GAAGTTAACG  | CTAGGAAAGT | 3300 |
| TAGAAGCGAA  | TTGGATGTAG | AGCGGTCTAA | TTTAGAATTA | GGATTTATAA  | ATGCATTTAA | 3360 |
| GCAATATTCT  | AGTGTTGAGC | TTTTTAGTAT | GCATACTAAA | ATAGAAAATT  | TAAGAGCCGA | 3420 |
| AATTGACGCT  | TTAAATAAAG | CAAGTAGTAA | AAAAACAAG  | CAAGTTGTTA  | ATGGAGAAAT | 3480 |

TAATTCTTTA AAAAGCGAGC TTGATGAATA TATAAAAGAG TGTTCATAA GAGAAATGGA 3540  
GCTTTACTAT GAATGTATGA AAAAAGTTGC TACGGTTAAT GGAGCTGAAA GCAAAAGTAA 3600  
CTACAAAAAT AGTAAAGGGC ACAAGTGAAC TTATATCAAA CAAAAGTTT TAC 3653

(2) INFORMATION FOR SEQ ID NO: 34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

CAnTTTTATG GAGGTTCTTA GATTTTTnG TATTGCTTCT CATAATTAAA AAAATAGAGA 60  
ATAAAAAGGT CTTCCCGACT TTTCTTAATA TGGAACAATT GnCAATAAGG AATTCATAAG 120  
GAAAAGTTAA AGCTAATATA TCATCTATAA ATAATAAAAA ATATTAAAAA ATAGAGGTTG 180  
AAATTTTTAC ATATTTTATA CATAATAATA ATTATTACAC GAACAAATAG GAGAAAAGAT 240  
GGCATTAAAT TTGCTTAACC ATAACCACAA CAAAACCAAT ACCAACAAAC TACTTTCAAA 300  
AGATTCAAGG CTCAAAAAAA TTATTTTCAGT AATTAATTAC TTAAATAAAA GTTTTGAAAA 360  
AAAATATGAT ATTTCAATAT ATAGAATTCA TTTTAATTCT GAAAACTAA AAGAGCTTTA 420  
TCCTCATCAT CAAATAGATA TCCTTAGAGT TTTAACTCT AATATAAGCA AAGAAGGCTA 480  
TAAACCAACT GTAATAAGAA CCTTAAGAGA AGACCTAAGA TTTTAAATTC ACATAAAGC 540  
AATTGAAAAA AAAATATTAA CATTCTCAAA TAACTTAGGA AAATTTAAGG GAAAATTATG 600  
TATATATAAG GTGTCGCCTA TTGCATATAA ATTAATATCT GCTTATTTTG AAGCTTATAA 660  
AGCAGACCTC TATAGAAAAA TAAAAAGAG TAAAGACGGG CTGATACAC AAAATGTAAC 720  
TAAAAATGTT ACTGTATATA TAAATTATCA TAAAAATATA TATAATAAGA ATTCTATTGA 780  
AACCGTCTTT AAAAAATCCT AACTAAGAA AAAACAAAAA AAGAAAAACA AAAAGAATT 840  
CACAAAAAAT AATTTGAAA AAAGGTTGAA ATTACCTGAA GAAATAACTA AAGAAATTAT 900  
AAGTATAGCA AAAAAACTA AAAATCCAGA TAAACTTAC AAAAATACGC TTTTAAATTA 960  
CAAAGATTTT TTAACTATT TATCATATGA CTATAAAAAA GAAGATATTT CATATTTCTT 1020  
TTTGAGCAA CTTAAAGAAT ATAAAAATAA AATTCACTTT ATGAGAAAAT ACGCTCCTTA 1080  
TAAAACAGAC TTTTACCTAC TTGCAGGAGA ATTCAAAGAT TCGTACCATT CTAATGGA 1140  
AACAAATAAA AAAACCAATT TTAGCGGACA TGTAAGAA ATAGCCAACA ACATTCTAAG 1200

|             |             |            |            |            |            |      |
|-------------|-------------|------------|------------|------------|------------|------|
| TAAAAATTTTA | GAAAAGGAGC  | TAAAGTTTGA | ATGATTTACT | AGAAAACTA  | AAAGCGAGAA | 1260 |
| AAAAAGAAAAT | AATAAGCAAG  | AAAGAAGCGG | AATATAACAA | TAATATAAAT | AAAGGAACAA | 1320 |
| AAGAAAGAAC  | TGCCTTTTTT  | AGAATTGAAG | AAATAGATAA | TAAAAAATA  | TATTATACAA | 1380 |
| AAATCTTTAA  | ATATTTAGTA  | AAATTTAGAA | TTGCCAATAA | AGACAATAAG | CTAAGTTTAA | 1440 |
| CTTTCCAAAA  | ACTTAATAAT  | AAAAAAAATT | ATTATTTATT | TAATCTTTTT | CCTCTAAAAG | 1500 |
| AAGACAACAA  | GTTTCTAGGA  | ATAAAATATG | GATGGGACAA | ATTAGAAAAG | CCTTTTTTTT | 1560 |
| TAAGGCAAAA  | TAATAAATCT  | TATGTAATAA | AAAAACTTTA | TTATTTAGAA | TTTAAATTTA | 1620 |
| GCAAAGGGTC  | TATTAAGTGT  | TACGTTCACT | CTCTTAGAAC | ACTATTAAGA | AAAAAAGACA | 1680 |
| AAGAAAGTAC  | CAAAATATTAT | AAGTTTAATT | TAGAACACAT | AAAAAGAATG | GAAAATACCG | 1740 |
| TATATAAATT  | TTACAGTAAA  | AAGCTAAAAA | ATAAAGGAGT | AATATATAAA | TGGATAGAAA | 1800 |
| AAAATCAAAT  | ATTATAACAA  | TAGCAAATCT | TAAGGGAGGT | GTAGGCAAGA | GCACACTATC | 1860 |
| AATACTGTTT  | TCTTATGTAT  | TAAAGGATTT | GGGTAAAAAA | GTATTGCTTA | TTGATATGGA | 1920 |
| TTCACAAAAT  | GCTTTAACTT  | CATATTTTAG | AAAATATGTT | TTAATTTTGT | ATAAAAATAA | 1980 |
| CATTTATAAT  | TTATTAATAG  | GCAATGTTTA | TTTTGATCAA | TGTATAAGTA | AAATCAACGA | 2040 |
| TAATATTTTT  | ATAATTCCAT  | CACATCCTTT | TCTTGATGAA | TTAATGATA  | AAAATTTGGA | 2100 |
| TAATAAGGAA  | AATTTATTGA  | GTTTTTGTTT | AGACAAAAAT | GTTTTAGGCC | ATGATTTTGA | 2160 |
| TTATATTTTT  | CTTGATACTC  | CCCCTAGTTT | TAGTTTTATT | TTAAAAAATG | CATTAAATAC | 2220 |
| TACAAATCAC  | ATTATTATTC  | CAGTTCAACC | TGAAACATGG | TCAATAGAAA | GTTTGGAGAT | 2280 |
| ATTAATGAAA  | AAAATTACAG  | ATAAAAGCTA | CAATATTTCT | ATTGTTGTAA | ATCAATTTAT | 2340 |
| TAAAAACAGG  | AATATACTTA  | AAGAGGTTGA | AGATGCTCTA | TATAAACGAT | ATAGTAACTA | 2400 |
| TATAAAAGGT  | AAAATTCATT  | ATTATAATAG | TATAAAGGTT | TTTATAATTA | ACCGTTTGGA | 2460 |
| ACCAGATATA  | AAGAGCAAAT  | ATTATAAAGA | AGCAAAAGAT | GTATTAAAAA | ATATTTTAGA | 2520 |
| TTTGTAACAT  | TTTTTTATAT  | TCCCCCGGGG | GAATATAAAA | AAGGGAGTTT | AAAATGAAAA | 2580 |
| TAAAAGCCGA  | AAAAGATAAA  | GAAGCATTAT | TTAGTAATCG | TTTTGGGGAT | TGCAATGAAG | 2640 |
| AAACAAATTT  | AAATGACGAT  | CAAGATAAAG | AATTGGCAAA | TTATAATAAT | CTAAAAGAAC | 2700 |
| AGCTTAAGTA  | TAATTTAAAA  | GATGATATTA | ATAATAAAAT | TCAAAGAATG | AAAATATTAT | 2760 |
| ATGAAATTAA  | ACAAAAAGAA  | TTATATAAGT | ACGATGGTTT | TGCTCGTTTT | AATGATTTTA | 2820 |
| TAAAATCTTT  | TGAAGTTGCA  | AAAAGTCAGG | CTTATAGGTA | TTTAAAAATT | TATCAAAAAG | 2880 |
| TTCTAGAGGG  | TAAAGTGTCC  | ATTGATAAAA | TAAAAGAAGT | GGGCTTTAAG | GCTATATTAA | 2940 |
| GAGATATAAA  | GGCCAAAGAT  | TCTTTAAACG | AAGATAACCA | TAGTGAATCT | GAAGGCGCTA | 3000 |

|   |      |
|---|------|
| ATGAAAGCAT TCCTATTAGA ATTTTAGTAA AGGATAAAGA ATTATATAAT TTCTGTAAAC | 3060 |
| AAGATACTAA AAGATTGTAT TTTATTATTG AAAAAATTTA TAAAGAAAAG AGAGATGTTT | 3120 |
| TATCTGAGCT TATAATTGAG TATGAAAAAA ATAAAAAATA AAAAATAAAA AATAAGCCTA | 3180 |
| TTGATTAATA ATGTATATTA TGATAGCATT TAATCAGGTT GGGATTTAAT TTCCTATACT | 3240 |
| ATTTGTTTCGT TGTAACCGGA ACTGCCATA TCGGGCTTTT TTGCTATATA TAATCTTAAT | 3300 |
| CAAAAGTAAC TATTAACAT TAACATTAA CTATTAATA TTAACATTA ACTATTAAC      | 3360 |
| ATTAACATT AACTATTAAC TATTAACAT TAACATTAG TAGATTTAAG TTTTCCCCG     | 3420 |
| ACTTAATTTG AA   | 3432 |

(2) INFORMATION FOR SEQ ID NO: 35:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

|   |     |
|---|-----|
| ATAATAATAA TGATTATGAA ATGCTCAAAA ATCTTGGTAA AGGGGTTTTA ATGAAAAATG | 60  |
| CCAATGAATT TCTTAAAATT AATTTAGCAA AGAATGAAAT AACAAGATTT AGTAATAATG | 120 |
| AGGATGGCGT TGCTAGGTTT TTAATTGATT TTTTTAAGCT TAATATTAAA TATTAATAAT | 180 |
| TTGTATTTAA ATGTTTAATC CATTTGATTT ATTTTtagCA GGATTTTCTA TTTAAAATAT | 240 |
| AAATTTTTTA CTTATAATGT ATTTTtGAAA ATTTATTTAT TAAAATATTG GAATAAGTAT | 300 |
| TGACATGGAT TAAACAAAGA TATATATTAT TTTATGTTGy ATAAACAAAT TGGCAAAATA | 360 |
| GAGATGGAAG ATAAAAATAT GGTCAAAGTA ATAAGAGTCT ATGGTGAATG CCTAGGAGCT | 420 |
| TTAAGGCGAA GAAGGTCGTG GTAAGCTGCG AAAAGCTTGG GGGAGAAGCA AACATTTATT | 480 |
| GATCCCAAGA TTACCGAATG GAGTAATCCA GCTAGCAAGA TGCTAGCTAT CTATTATTTA | 540 |
| AATAATAGAG GCGATACCAG GGAAGTGAA CCATCTAAGT ACCCTGAGGA AAAGAAATCA  | 600 |
| AAGAGATTCC CTTAGTAGTG GCGAGCGAAA AGGGAGTAGC CCAAACTTTA AATGTGTCAA | 660 |
| GCTGCAGAGC GTTGCATTTA TGGGGTTGTA GGACGTTTAG GCTTAGTCTG TAATAAGCAA | 720 |
| AAAAGTTACA AAATATTTAT ATAGAAGAAT AATCTGGAAA GTTTAACCaa AGAAGGTGAT | 780 |
| AGTCCTGTAA TTTAAATGTA AATATCTTTT TAAAATGTTC CTGAGTAGGA CGAGGCACGA | 840 |
| GAAACCTTGT TTGAAGCTGG GGAGACCACT CTCCAAGGCT AAATACTAGA AAGCTACCGA | 900 |

|  |      |
|--|------|
| TAGAGAAGAG TACCGTGAGG GAAAGGTGAA AAGAACCCCG GGAgGGGAGT GAAATAGAAC  | 960  |
| TGAAACCGTA GACTTACAAG CAGTCAAAGC CGTAATTTAT TGCGGTGATG GCGTGCCTTT  | 1020 |
| TGCATAATGA ACCTGCGAGT TATCATGTCT AGCAAGATTA AAGCATAGAA GTGCTGGAGT  | 1080 |
| CGAAGCGAAA GCGAGTCTTA AAAGGGCGAT TTAGTTAGAT GTGGTAGACC CGAAGCCGAG  | 1140 |
| TGATCTATTT ATGGCCAGGC TGAAGCTTGG GTAAAACCAA GTGGAGGGCC GAACTCTAGT  | 1200 |
| CTGTTTAAAA AGGCAGGGAT GAGCTGTGAA TAGGAGTGAA AGGCTAAACA AACTCGGAGA  | 1260 |
| TAGCTGGTTC TCCCCGAAAT GGATTTAAGT TCAGCCTTAT TTTAGTTTAA TAGAGGTAGA  | 1320 |
| GCACTAATTG AGCTAGGGCC TGTCAAAGGG TACCAAACCTC AGTTAAACTC CGAATGCTAT | 1380 |
| TAAATGATGA ATAGGAGTGA GACTATGGGC GATAAGGTTC ATAGTCGAGA GGGAAACAAC  | 1440 |
| CCAGACCAAC AGCTAAGGTC TCAAAAATGT GTTAAGTGGA AAAGGAGGTT TAGGTACGTA  | 1500 |
| AACAGCCAGG AGGTTGGCTT AGAAGCAGCC ATACCTTTAA AGAGTGCGTA ATAGCTCACT  | 1560 |
| GGTCGAGTAC TTAAGCGCCG ATAATGTAAAC GGGGCTAAAC ACATTACCGA AGCTTTGGAT | 1620 |
| CTTAACGAAA GTTAAGATGG TAGGGGAGCG TTCTGTAAAGC CAGAGAAGTT AAGCTGAAAA | 1680 |
| GTTTGATGGA GGTATCAGAA GTGAGAATGC AGGTATGAGT AACGAAAAAA TGGGTGAGAT  | 1740 |
| TCCCATTGCG CGAAAACCTA AGGTTTCCTG GGTAAAGGTC GTCTTCCCAG GGTAGTCGG   | 1800 |
| CCCCTAAGGC AAAGCTGAAA AGTGTAGTCG ATGGGAAACG GGTAAATATT CCCGTACCTC  | 1860 |
| TTATAGTTTC GATGGAGTGA CGCATGAGGT TAACTACTGC TAGGCGATGG TTGTCCTAGT  | 1920 |
| TTAAGCATTA AGGCGATGAT CTTAATAGGA AAATCCGTTA AGAGAGCTAA GATGTGATGA  | 1980 |
| TGAGTGCTAT TTAGGTAGCA TGAAATGTAG GTAGTCAAGG TGCCAAGAAA TAGCTTCTAA  | 2040 |
| GGTTAGGCTA TAAGGGACCG TACCGCAAAC CGACACAGGT AGGTGGGATG AAAATTCTAA  | 2100 |
| GGCGCGCGAG AGAATCCACG TTAAGGAACT CTGCAAATA CGTACGTAAC TTCGGGATAA   | 2160 |
| GTACGACCTA AGCAATTAGG TAGCATAAAA ATGGTCCAAA CGACTGTTTA CAAAAACAC   | 2220 |
| AGGTCTCTGC AAATCTGTAA AGAGAAGTAT AGGGACTGAC ACCTGCCCCG TGCTGGAAGG  | 2280 |
| TTAAGAGGAG ATGTTAGTTT ATGCGAAGCA TTGAATTTAA GCCCCAGTAA ACGGCGGCCG  | 2340 |
| TAACTATAAC GGTCTTAAGG TAGCGAAATT CCTTGTCGGG TAAGTTCCGA CCCGCACGAA  | 2400 |
| TGGTGTAACG ATTTGGACGC TGTCTCAACG TGGAGCTCGG TGAAATTGAA GTATCGGTGA  | 2460 |
| AGATGCCGAT TACTTGTGGT TAGACGGAAA GACCCCGTGA ACCTTTACTA TAGCTTGGA   | 2520 |
| TTGAGATTTG ATTAAATATG TGTAGGATAG GTGGGAGACT TTGAAGCTAT CTCGTCAGGG  | 2580 |
| GTAGTGAGT CAATCTTGAA ATACCACCCT TGTTTAATTA GTTTCTAAC TTATAGAAAT    | 2640 |
| ATGAGGAGAG TGCCAGGTGG GTAGTTTGAC TGGGGCGGTC GCCTCCTAAA GAGTAACGGA  | 2700 |